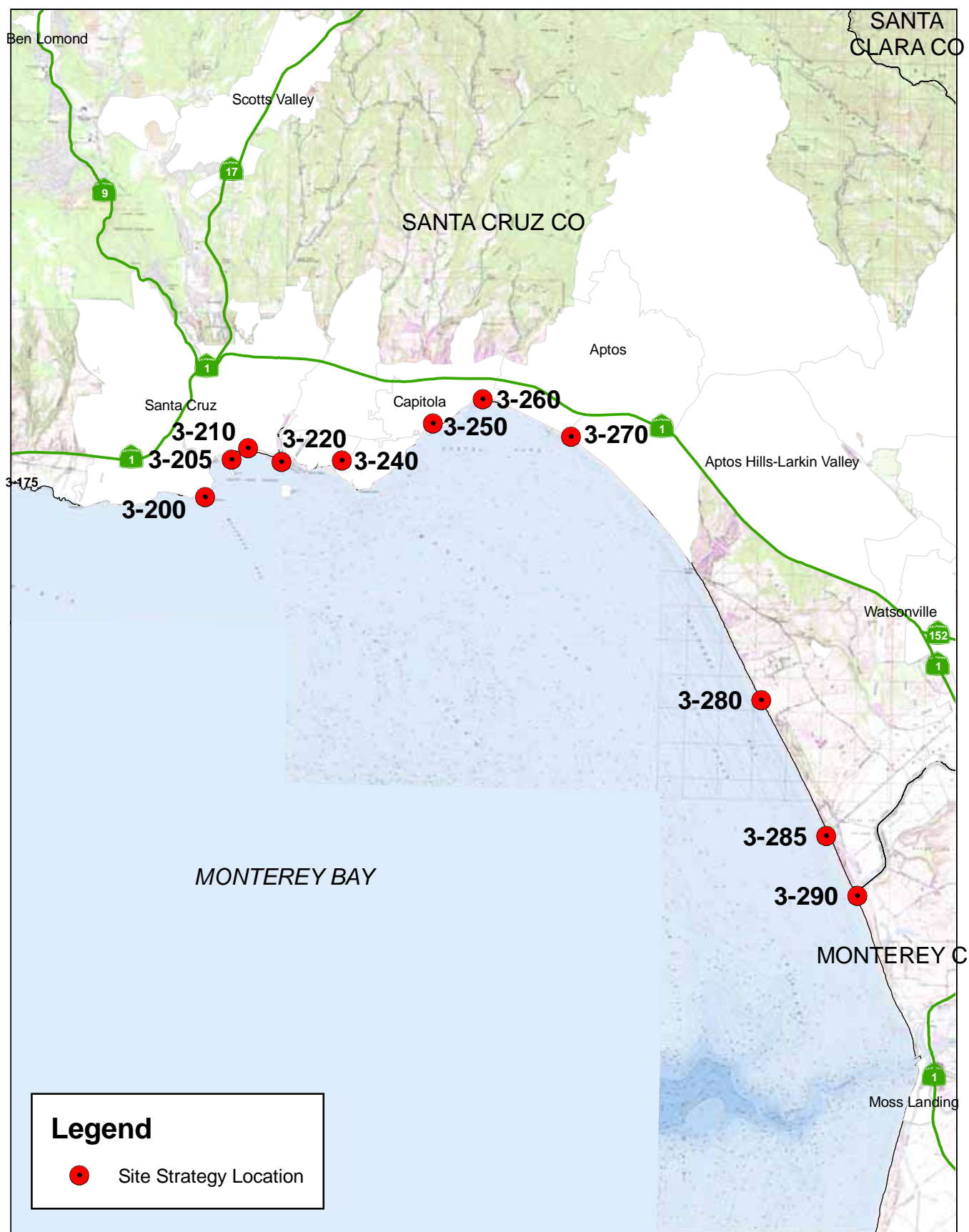


Central Coast Geographic Sub-Area 2 Site Strategy Locations



Section 9872 – GRA 2 Point Santa Cruz to Pajaro River

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3-200 -B Site Summary- Lighthouse Field State Beach**3-200 -B**County: **Santa Cruz**

Thomas Guide Location

992

Latitude N

36° 56.9'

Longitude W

USGS Quad: **Santa Cruz**

NOAA Chart:

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Public beach located along Cliff Drive at base of wave cut platform with high energy surf. Site includes pocket beach and heavily ripraped shoreline west of Lighthouse beach. Beaches receive moderate to heavy recreation. Offshore rocks provide haulout for pinnipeds. Rocky headland and small pocket beaches. Lighthouse Field State Beach lies west of the Lighthouse parking lot and access to beach via staircase near center of beach. Beach is approx 220 yds by 30 yds.

SEASONAL and SPECIAL RESOURCE CONCERNS

Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN

Primary drivers at risk are those migratory species listed below and their respective habitat.

Brown pelicans, and black swifts (CA Species of Special Concern) nest along crevices in coastal cliffs.

Pocket beaches and large, platform rocks provide haulouts for moderate numbers of California sea lions and harbor seals especially on point directly off lighthouse point. Hoary Bats (*Lasiurus cinereus*) are known to occur here (CNNDDB) and nest within the wave carved, sandstone bluffs. Southern sea otters (FT) are known to occur in kelp beds. Zayante band-winged grasshopper (FE) occurs on site.

Numerous species of Rockfish and Surfperch are located offshore year round and spawn Jan-Jun.

Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Kelp beds located offshore and Southern sea otters (FT) are potentially present.

White-rayed pentachaeta (SE/FE) occurs on site.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		City of Santa Cruz	(831) 420-6050
T	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
T	Dispatch	CA Dept. Parks & Recreation	(831) 649-2810

ADDITIONAL SITE SUMMARY COMMENTS:

<http://www.californiacoastline.org>. Image #s 6590. Steamer's Lane important as high-use surfing area (offshore Lighthouse Field). City of Santa Cruz Municipal Wastewater Treatment Facility discharge nearby

3-200 -B Site Strategy - Lighthouse Field State Beach

County and Thomas Guide Location

992 Santa Cruz

NOAA CHART

3-200 -B

Latitude N Longitude W

36° 56.9'

CONCERNS and ADVICE to RESPONDERS:

Last Page Update : 6/20/2011

Brown pelicans and black swifts (CA Species of Special Concern) nest here. Haulout for moderate numbers of California sea lions.

HAZARDS and RESTRICTIONS:

Heavy surf against steep coastal bluffs.

SITE STRATEGIES

Strategy 3-200.1 Objective: Offshore Containment and Recovery Activities to Minimize or Avert Oil From Impacting Shoreline Habitats and Wildlife

This site is difficult to protect as is most of the outer coast. No on-site protection is feasible.

a) Recommended response strategy is on-water containment and recovery

b) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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3-200.1

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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Take Highway 1 north/Mission Street through west Santa Cruz. Turn left onto Bay street and at the ocean (West Cliff Drive) turn right and go upcoast approximately ¾ mile to Pont Santa Cruz. Lighthouse Field State Beach straddles East Cliff Drive. Parking lot at lighthouse, access is by foot via unstable cliffs or a set of stairs a few hundred yards upcoast from the lighthouse. Public beach located along Cliff Drive at base of wave cut platform with high energy surf. Site includes pocket beach and heavily ripraped shoreline west of Lighthouse beach. Beaches receive moderate to heavy recreation. Offshore rocks provide haulout for pinnipeds.

LAND ACCESS: Access limited to foot via staircase north of lighthouse.

WATER LOGISTICS:

Limitations: depth, obstruction

Launching, Loading, Docking Nearest launch at Santa Cruz Harbor.

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CDFG - OSPR & USCG Site: 3-200 Name: Lighthouse Field State Beach

Mike Schommer OSPR & Jo Sanders OSPR Date: Feb 19, 2008

<ul style="list-style-type: none"> Harbor / Curtain Boom Swamp / River Boom all other boom types 	<ul style="list-style-type: none"> Sorbent boom Berm, Dam, or Dike Filter fence Boom tow 	<ul style="list-style-type: none"> SSS - Shoreside Skimming System SFS - Stationary Floating Skimmer SPS - Self Propelled Skimmer TSA - Towed Skimming Array
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County: **Santa Cruz**
 USGS Quad: **Santa Cruz**

Thomas Guide Location
 992
 NOAA Chart:

Latitude N
 36° 57.7'
 Longitude W
 122° 01.2'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Site includes Cowell beach to north and to south including Santa Cruz Beach terminating at the San Lorenzo River. Beach area under heavy recreational use year round. Shore and seabirds roost upon municipal wharf. Municipal wharf and recreational fishing pier with beach areas on either side. Rocky cliffs short distance away on upcoast side. Area of high recreational use (including surfing, wind-surfing and sailing).

SEASONAL and SPECIAL RESOURCE CONCERNS

Year round.

RESOURCES OF PRIMARY CONCERN

All beach area is critical habitat for the western snowy plover (FT). Use caution when conducting any beach response, especially in the dunes. Nesting occurs Feb to Sept and site serves as rookery all year long. Sea otters (FT) are present within nearshore kelpbeds.

Brown pelicans, snowy plovers (FT) and black swifts (CA Species of Special Concern) are all known to utilize habitat on-site. Various shorebirds utilize beach and intertidal area to forage, roost and potentially nest.

Haul-out for moderate numbers of California sea lions. Harbor seals are known to forage in confluence of San Lorenzo River.

Fish species found nearshore to include: Northern Anchovy, Pacific Chub Mackerel. Striped Bass, Surfperch and White Croaker.

Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug. Brackish Water Snail is known to occur within San Lorenzo estuary.

Patches of kelp beds are located nearshore and likely contain Southern sea otters (FT).

White-rayed pentachaeta (SE/FE) occurs on site.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		Aquarius Boatworks	(831) 475-3131
O		Leo Sport Fishing	(831) 476-2648
O		Santa Cruz City Police	(831) 420-5800
O	Harbor Master	Santa Cruz Harbor	(831) 475-6161
O		Seaside Company	(831) 423-5590
E		City of Santa Cruz - Municipal Wharf	(831) 420-6025
T	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
T	Dispatch	CA Dept. Parks & Recreation	(831) 649-2810

ADDITIONAL SITE SUMMARY COMMENTS:

<http://www.californiacoastline.org>. Image 200401448 Coast Guard Reserve Lifeguard Headquarters located on the pier. Nearby waterfront hotel (West Coast Santa Cruz Hotel). Significant tourist destination.

3-205 -A Site Strategy - Santa Cruz Beach

County and Thomas Guide Location

992 Santa Cruz

NOAA CHART

3-205 -A

Latitude N

Longitude W

36° 57.7' 122° 01.2'

Last Page Update : 6/20/2011

CONCERNS and ADVICE to RESPONDERS:

Brown pelicans and black swifts (CA Species of Special Concern) nest here. Haul-out for moderate numbers of California sea lions.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 3-205.1 Objective: Offshore Containment and Recovery Activities to Minimize or Avert Oil From Impacting Shoreline Habitats and Wildlife

This site is difficult to protect as is most of the outer coast. No on-site protection is feasible.

- a) Recommended response strategy is on-water containment and recovery
- b) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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3-205.1

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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Take Highway 1 north to Santa Cruz, or Highway 17 south to Santa Cruz. From either, take Ocean street (Highway 1 goes around a sharp "fishhook" turn to place you on Ocean Street from the left lane, while Highway 17 south will put you directly on Ocean if you stay in the left lane). Take Ocean to Laurel and turn right. At Front Street turn left. Front Street ends at the Santa Cruz Municipal Wharf, with Santa Cruz Beach extending to either side of the Wharf. Site includes Cowell beach to north and to south including Santa Cruz Beach terminating at the San Lorenzo River. Beach area under heavy recreational use year round. Shore and seabirds roost upon municipal wharf.

LAND ACCESS: Large truck

WATER LOGISTICS:

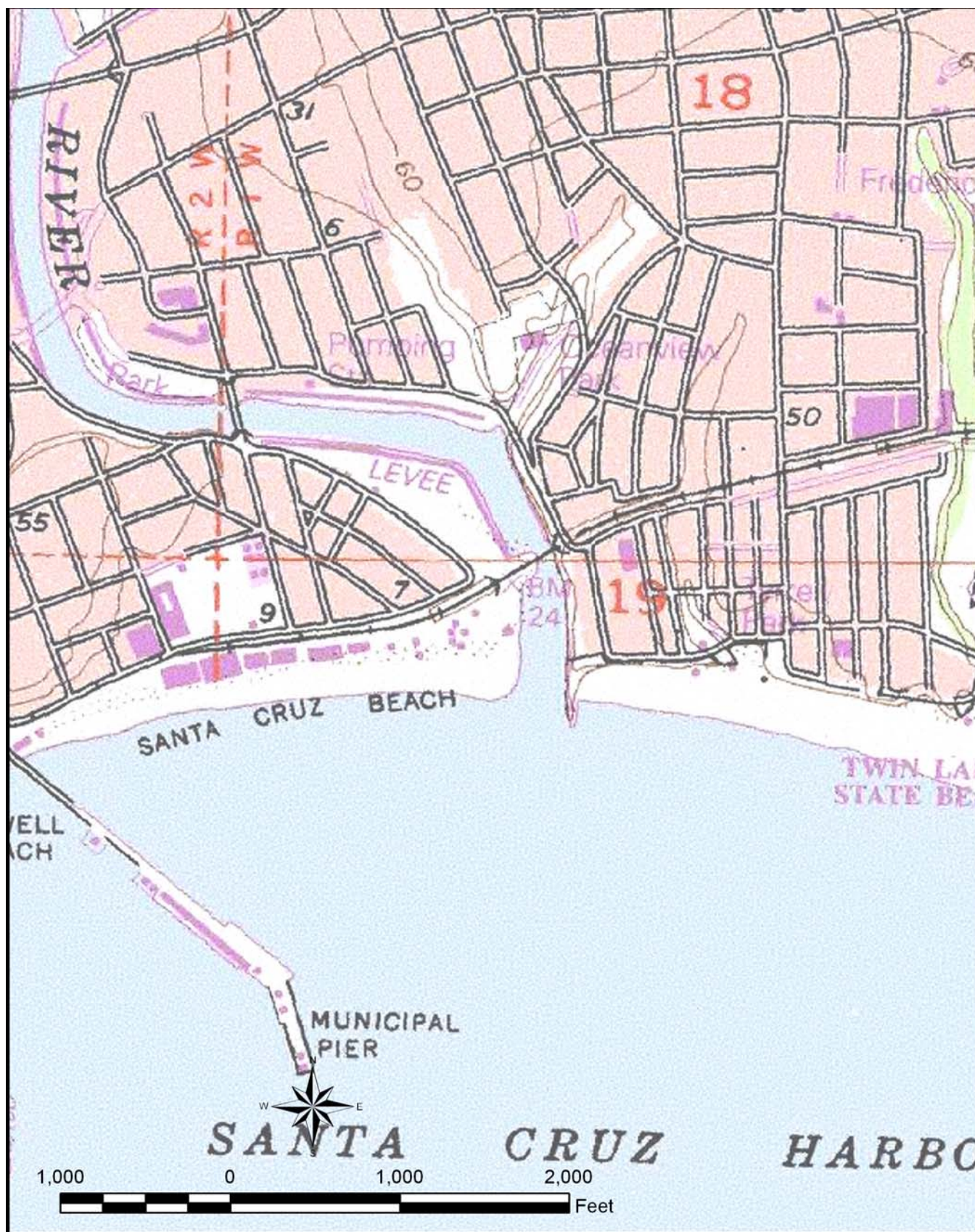
Limitations: depth, obstruction

Launching, Loading, Docking Nearest launch at Santa Cruz Harbor.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CDFG - OSPR & USCG Site: 3-205 Name: Santa Cruz Beach

Mike Schommer OSPR & Jo Sanders OSPR Date: Feb 19, 2008

<ul style="list-style-type: none"> Harbor / Curtain Boom Swamp / River Boom all other boom types 	<ul style="list-style-type: none"> Sorbent boom Berm, Dam, or Dike Filter fence Boom tow 	<ul style="list-style-type: none"> SSS - Shoreside Skimming System SFS - Stationary Floating Skimmer SPS - Self Propelled Skimmer TSA - Towed Skimming Array
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County: **Santa Cruz**
 USGS Quad: **Santa Cruz**

Thomas Guide Location
 992
 NOAA Chart:

Latitude N
 36° 57.6'
 Longitude W
 122° 00.8'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

San Lorenzo River deposits into ocean at eastern edge of Santa Cruz Beach. Site to include rivermouth and upstream to Southern Pacific Rail Bridge approx 350yds from ocean. Beach access from boardwalk area only. Good observation point from southside of rivermouth. Channel location may migrate from year to year. River mouth maintained as dredged flood-control channel. Open water and sand flats within tidal prism serve as resting habitat for birds and riparian wildlife. Beach area near boardwalk receives heavy recreation year round.

SEASONAL and SPECIAL RESOURCE CONCERNS

Year round. Upper watershed is known to support remaining Coho and Steelhead populations. In addition, Tidewater gobies are known to occur within lower reaches of river.

RESOURCES OF PRIMARY CONCERN

Endangered Coho salmon and threatened steelhead spawn in upper reaches but stage anywhere suitable. Young-of-the-year (YOY) use lower reaches as nursery. Beach known habitat for the snowy plover (FT).

Coastal seabirds including brown pelicans and Western snowy plovers (FT); various shorebirds.

California sea lions and harbor seals also present and forage in estuary. Zayante band-winged grasshopper (FE) occurs on site.

Anadromous stream with Steelhead trout (FT) and Coho salmon (SE/FE). Coho salmon (SE/FE) Young-of-the-Year utilize river as nurseries as they'll spend their first year in fresh water and their next two years in salt water prior to returning to spawn in their natal streams. Tidewater gobies (FE) is known to utilize river. Sacramento Sucker and Ca Roach are found within drainage.

Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Kelp beds are located offshore and Southern sea otters (FT) are potentially present.

White-rayed pentachaeta (SE/FE) occurs on site.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		City of Santa Cruz	(831) 420-6050
T	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201

ADDITIONAL SITE SUMMARY COMMENTS:

<http://www.californiacoastline.org>. Image200401457. Site of Santa Cruz Beach and Boardwalk; high recreational use.

3-210 -A Site Strategy - San Lorenzo River Inlet

County and Thomas Guide Location

992 Santa Cruz

NOAA CHART

3-210 -A

Latitude N Longitude W

36° 57.6' 122° 00.8'

Last Page Update : 6/20/2011

CONCERNS and ADVICE to RESPONDERS:

Coastal seabirds including brown pelicans and shorebirds. California sea lions also present. Anadromous stream with Coho salmon (SE/FE) and steelhead trout (FT).

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 3-210.1 Objective: Exclude oil by berming, place sorbent boom 30' landward of berm/xboom to ensure oil exclusion

During optimal conditions (low discharge and moderate surf), every attempt should be made to block entrance to inlet with a sediment berm or appropriate equivalent. Should the berm fail, or conditions not allow berm construction, a series of deflection booms should be employed to divert oil to sandy west bank of river.

COLLECTION POINTS: Westside of inlet, near vehicle access point, adjacent to boardwalk parking lot.

Strategy 3-210.2 Objective: skimming when skimmable oil quantities are present

In the event that entrainment occurs during flood tides, a skimmer should be placed in the channel, inland of primary and secondary diversion booms. Shoreside skimming system should be very shallow types (e.g., duck-billed or general dynamic) should be placed on west (or east) shore of river at collection points of primary and secondary diversion booms.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment and kinds	staff deploy	Staff tend
3-210.1		800		400	9 Danforth				600' 6" PVC pipe, dozer or equivalent berming equipment	20	
3-210.2		0	0	0	0	0	1	SSS	0		

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

From Santa Cruz, take Highway 1 south to Ocean Avenue off ramp. Follow Ocean Avenue 2 miles and turn right onto San Lorenzo Boulevard. Turn left onto Riverside Avenue. Turn left onto Beach Street, and follow it into the Santa Cruz Boardwalk parking lot. Access east bank via Boardwalk. Beach is hard and can support traffic. San Lorenzo River deposits into ocean at eastern edge of Santa Cruz Beach. Site to include rivermouth and upstream to Southern Pacific Rail Bridge approx 350yds from ocean. Beach access from boardwalk area only. Good observation point from southside of rivermouth. Channel location may migrate from year to year.

LAND ACCESS: Beach access thru boardwalk parking lot near SPRR bridge.

WATER LOGISTICS:

Limitations: depth, obstruction

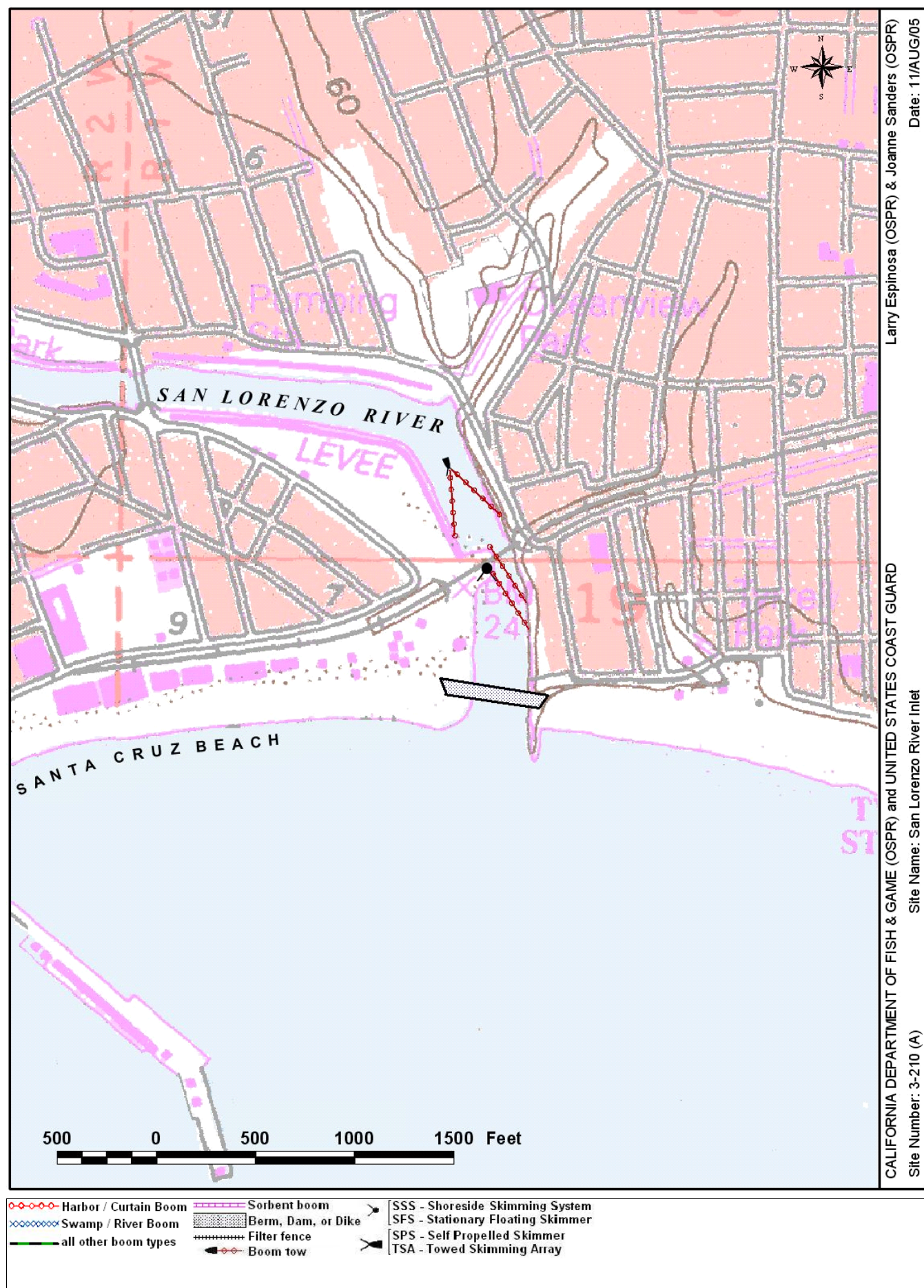
Launching, Loading, Docking Nearest launch at Santa Cruz Harbor.

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



County: **Santa Cruz**
 USGS Quad: **Santa Cruz**

Thomas Guide Location
 992
 NOAA Chart:

Latitude N Longitude W
 36° 57.5' 122° 00.2'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Municipal harbor and marina supporting vessel slips and general maintenance. Site to include marina and riprapped shoreline. Arana Gulch transits through harbor and supports steelhead run. Harbor district contact (831) 475-6162. Santa Cruz Harbor (also known as Woods Lagoon) and watershed supports WR Steelhead fishery within Arana Gulch. Access to north and south jetties via residential access roads.

SEASONAL and SPECIAL RESOURCE CONCERNS

Species of concern primarily WR Steelhead transiting thru harbor enroute to Arana Gulch headwaters. Threatened and Endangered birds are known to frequent area.

RESOURCES OF PRIMARY CONCERN

Arana Gulch deposits into Wood Lagoon and is known to support Winter Run Steelhead in its upper watershed. Brown pelicans are known to utilize northern edge of Woods lagoon.

Coastal seabirds including brown pelicans and cormorants; shore birds including snowy plovers (FT) and sandpipers.

Pinnipeds (sea lions and harbor seals) may be present throughout area.

Winter Run Steelhead trout (FT) are known to occur in the upper reach of Arana Gulch which transits thru the harbor. Tidewater gobies (FE) are found within lagoon.

Brackish Water Snail (*Tryonia imitator*) is found on-site.

Kelp beds are located nearshore and may contain Southern sea otters (FT).

The Santa Cruz Tarplant (*SE/FT*) is found on-site. White-rayed pentachaeta (*SE/FE*) occurs on site.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		Santa Cruz City Police	(831) 420-5800
O	Harbor Master	Santa Cruz Harbor	(831) 475-6161
T	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
O		Santa Cruz Co. Resource Planner (after hrs)	(831) 471-1121
T	Dispatch	CA Dept. Parks & Recreation	(831) 649-2810

ADDITIONAL SITE SUMMARY COMMENTS:

<http://www.californiacoastline.org> Image #s 6621, 6622, 6623. Small craft harbor with 960 berths, three boat ramp lanes, boat hoist, visitor berths (vessels up to 100' with maximum drafts of 10' at MLLW; small craft refueling dock; boat dry storage yard; 2-ton boat hoist; 120' linear dock space; 60-ton travelift; complete boat service and repair.

3-220 -B Site Strategy - Santa Cruz Harbor/Woods Lagoon

County and Thomas Guide Location

992 Santa Cruz

NOAA CHART

3-220 -B

Latitude N Longitude W

36° 57.5' 122° 00.2'

Last Page Update : 6/20/2011

CONCERNS and ADVICE to RESPONDERS:

Objective is to exclude oil from harbor. In addition to a variety of sea birds and shorebirds, sea otters may be present; wildlife disturbances should be minimized.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 3-220.1 Objective: Exclude oil from harbor entry

Set harbor boom in V-shape just inside harbor entrance (~1500') and another 2 parallel lines of (500'each) of harbor boom slantwise from east end of launch ramp to opposite side of harbor to protect berthed boats in harbor

Strategy 3-220.2 Objective: protection booming of jetty

Place Texas (intertidal) boom (200') on north side of jetty to protect rip-rap.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
3-220.1	2500				7 Danforth	3		1 SPS 0		11	
3-220.2	0	0	200 TBB	0	0	0	1	0 0		4	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Take Highway 1 north toward Santa Cruz. Take Soquel Drive (if going north on highway) or Soquel Avenue (if going south) exit. Need to be on west die of Highway 1, so if taking Soquel Drive, turn left at the stoplight to cross back over the highway. The road changes its name form Soquel Drive to Soquel Avenue at the overcrossing. Once over the highway, proceed north on Soquel Avenue to 7th Avenue and turn left. About 1 mile along 7th, turn right onto Brommer if you want to go to the upper end of the Santa Cruz Harbor. To get to the other side of the harbor, stay on Eaton (changes name to East Cliff Drive), turn left on Seabright, left on Atlantic, left on Mariner. To get to the lower end (harbor mouth), stay on 7th Avenue to Eaton. Turn right on Eaton, left on 5th Avenue. Entrances to harbor parking lots will be on the right. Municipal harbor and marina supporting vessel slips and general maintenance. Site to include marina and ripraped shoreline. Arana Gulch transits through harbor and supports steelhead run. Harbor district contact (831) 475-6162.

LAND ACCESS: Access to north or south beach. Harbor channel lined with riprap.

WATER LOGISTICS: Launching, Docking, Loading, fuel available. Harbor may silt.

Limitations: depth, obstruction

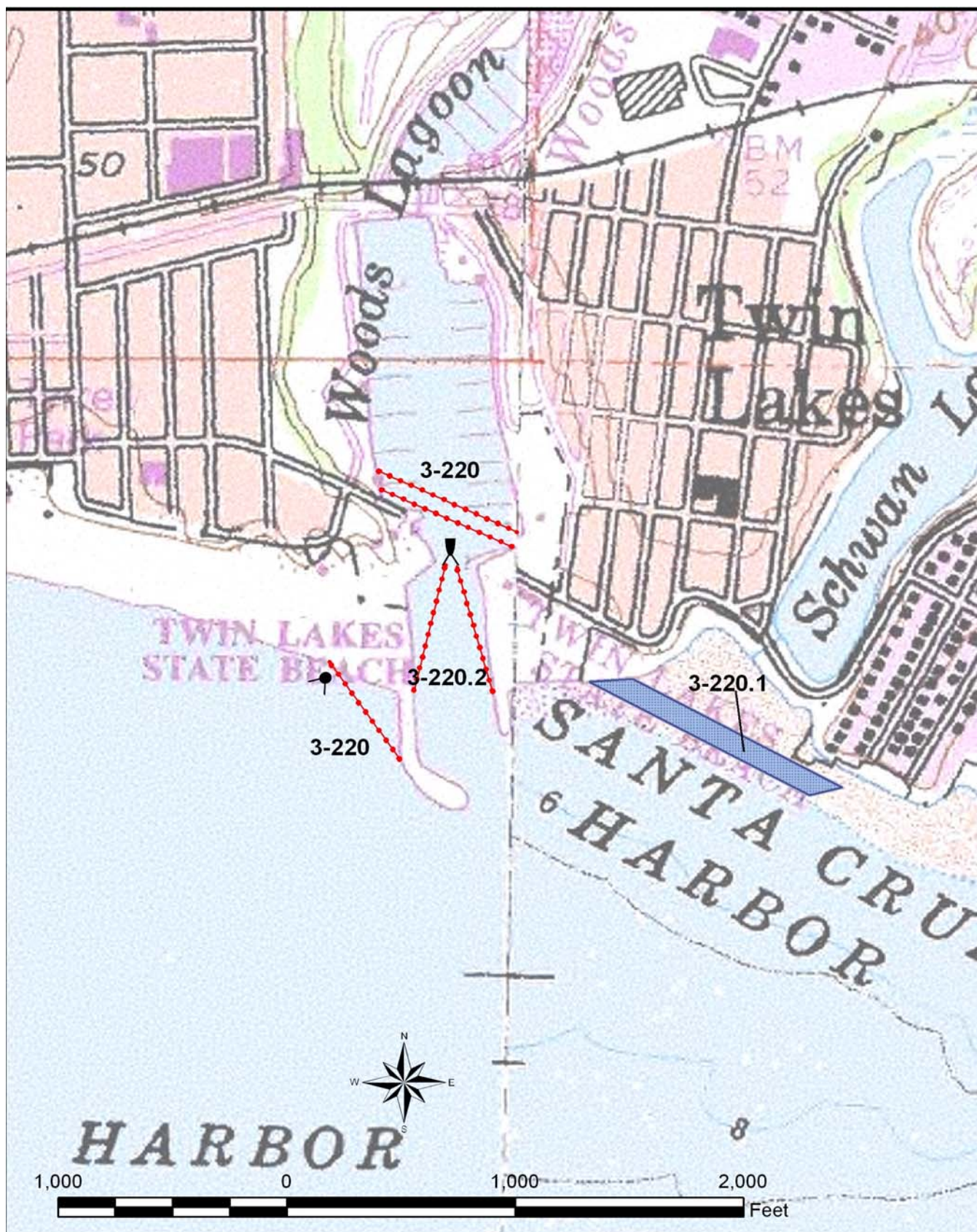
Launching, Loading, Docking On site launch.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Harbormaster's office onsite.

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CDFG - OSPR & USCG Site: 3-220 -B Name: Santa Cruz Harbor Entrance/Woods Lagoon

Mike Schommer OSPR & Jo Sanders OSPR Date: Feb 19, 2008

<ul style="list-style-type: none"> Harbor / Curtain Boom Swamp / River Boom all other boom types 	<ul style="list-style-type: none"> Sorbent boom Berm, Dam, or Dike Filter fence Boom tow 	<ul style="list-style-type: none"> SSS - Shoreside Skimming System SFS - Stationary Floating Skimmer SPS - Self Propelled Skimmer TSA - Towed Skimming Array
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3-240 -A/B Site Summary- Corcoran Lagoon Inlet (Rodeo Creek Inlet)**3-240 -A/B**County: **Santa Cruz**

Thomas Guide Location

992

Latitude N

36° 57.4'

Longitude W

121° 59.2'

USGS Quad: **Santa Cruz**

NOAA Chart:

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Inland lagoon which seasonally meanders thru frontage beach. Rodeo Creek drainage feeds into lagoon and contains remnant salmonid population. Lagoon outlet naturally bermed off during low flow periods. Surrounding area highly developed. Three radio station towers are located in lagoon to north of main stem of Rodeo Creek. Lagoon located on north side of East Cliff Drive. Lagoon mouth meanders thru sandy beach and varies in location year to year.

SEASONAL and SPECIAL RESOURCE CONCERNS

Species of concern discussed below are present year round. This is a B priority during summer months (i.e., during periods of low or no flow, or lower tides)

RESOURCES OF PRIMARY CONCERN

Primary species at risk are listed below along with their respective habitats.

Shore birds and coastal sea birds including cormorants, brown pelicans, pied-billed grebes and bufflehead. Various seabirds and shorebirds frequent lagoon and riparian habitat to roost and forage.

Pinnipeds potentially utilize area as a haul-out. The Pallid Bat (CA Species of Special Concern) is known to reside within site boundaries (CNDDDB). Zayante band-winged grasshopper (FE) occurs on site.

Tidewater goby (FE) inhabit the creek. Remnant salmonid population exists within Rodeo Creek (upper watershed).

Littleneck clams occur along intertidal beach area. Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Kelp beds are located nearshore and potentially contain Southern sea otters (FT).

White-rayed pentachaeta (SE/FE) occurs on site.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201

ADDITIONAL SITE SUMMARY COMMENTS:

<http://www.californiacoastline.org>. Image #s 200401484, 200401485. Private marsh. Next major point downcoast (Soquel Point) is major recreational area (surfing).

3-240 -A/B Site Strategy - Corcoran Lagoon Inlet (Rodeo Creek Inlet)

County and Thomas Guide Location

992 Santa Cruz

NOAA CHART

3-240 -A/B

Latitude N Longitude W

36° 57.4' 121° 59.2'

Last Page Update : 6/20/2011

CONCERNS and ADVICE to RESPONDERS:

Shore birds and coastal sea birds including cormorants, brown pelicans, pied-billed grebes and bufflehead. Tidewater goby (FE) inhabit the creek. Littleneck clams on sandy beach.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

COLLECTION POINTS:

On southeast beach, seaward of sediment dike. Access from 21st Avenue Dead End.

Strategy 3-240.1 Objective: Exclude oil by berming

Close off with a 300' sediment dike (medium-grained sand). It may be difficult to close inlet after period of prolonged erosion or during periods of high runoff. Install 6" PVC pipes to allow discharge underflow.

Strategy 3-240.2 Objective: High outflows repulse oil inflow: Assess

If water is flowing out of stream quick enough to prevent oil from entering, no berming or booming is necessary. Assess and monitor to verify the persistence of the outflow.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no	tvpe and gear	Boom boat	Skiffs punts	Skimmers No	Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
3-240.1									0		750 sand bags, 800' 6" PVC pipe, or equivalent berming	15	
3-240.2	0	0	0	0	0		0	0	0			2	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

From Santa Cruz, take Highway 1 south to Soquel Drive off ramp. Turn left at stop sign at end of exit ramp. Turn right on 17th Avenue. Continue straight to intersection of 17th with Cliff Drive (to right) and Portola Drive (to left). Turning left onto Portola will take you to the back side of Corcoran. Continuing from intersection of 17th/Cliff down to East Cliff (via 18th) and then left on East Cliff will take you to seaward side of Corcoran Lagoon. Cliff Drive runs over the Rodeo Creek Inlet. Inland lagoon which seasonally meanders thru frontage beach. Rodeo Creek drainage feeds into lagoon and contains remnant salmonid population. Lagoon outlet naturally bermed off during low flow periods. Surrounding area highly developed. Three radio station towers are located in lagoon to north of main stem of Rodeo Creek.

LAND ACCESS: Vehicle access just south of Santa Cruz harbor.

WATER LOGISTICS:

Limitations: depth, obstruction

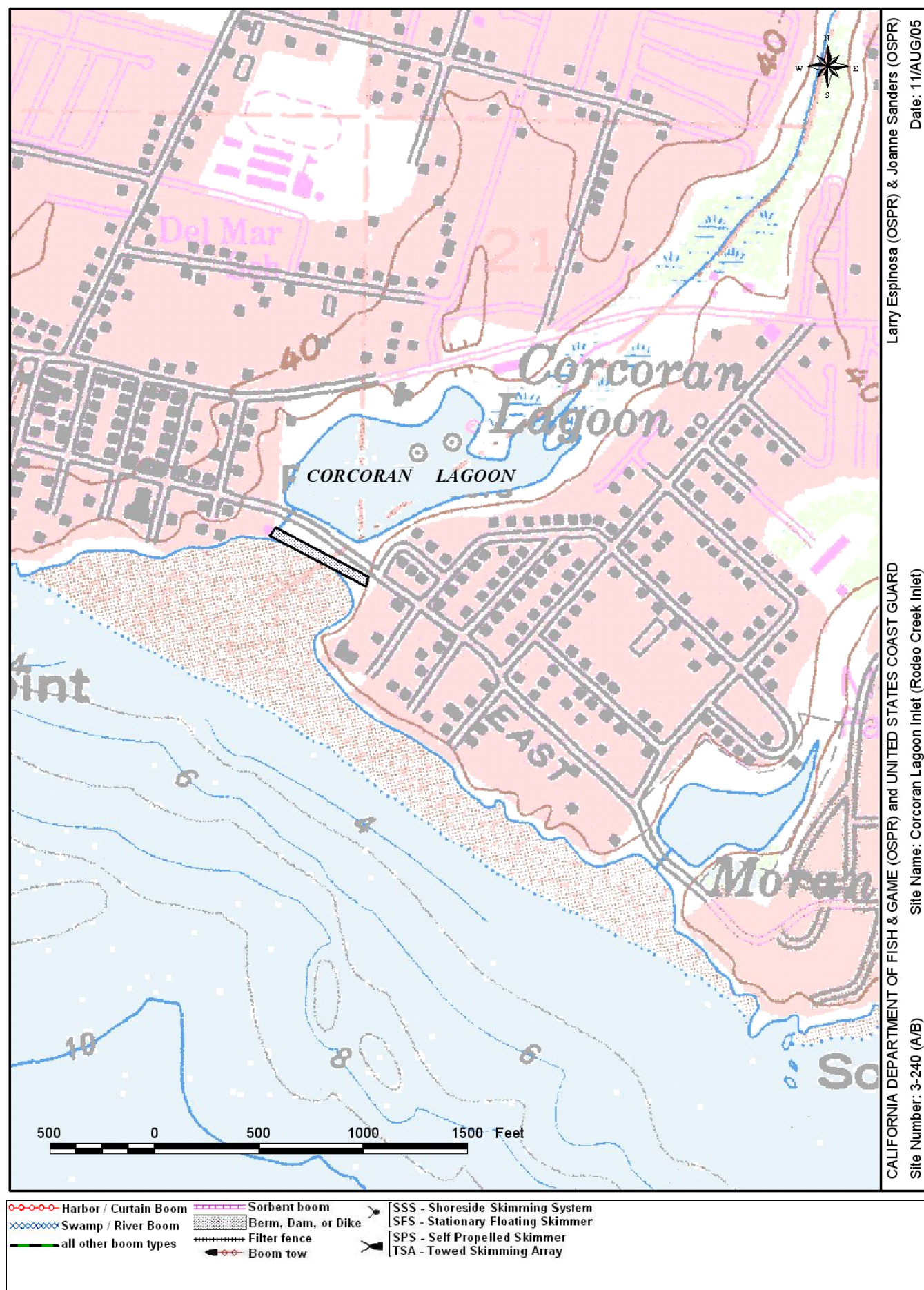
Launching, Loading, Docking Nearest launch at Santa Cruz Harbor.

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



County: **Santa Cruz**
 USGS Quad: **Santa Cruz**

Thomas Guide Location
 973
 NOAA Chart:

Latitude N
 36° 58.2'
 Longitude W
 121° 56.8'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Soquel Creek transits through heavily urbanized area of Capitola. Creek deposits on heavily recreated beach adjacent to highly populated area. Creek and lagoon may be naturally bermed off during summer months forming a large lagoon area. Site includes Creek mouth and adjacent beach up to Stockton Ave. Capitola Pier located on western beach supporting recreational boating, fishing opportunities and tourism facilities.

SEASONAL and SPECIAL RESOURCE CONCERNS

Year round. The Foothill Yellow-Legged Frog and brown pelicans are known to occur onsite.

RESOURCES OF PRIMARY CONCERN

Soquel Creek supports several endangered species and has tremendous pressure from increasing anthropogenic factors.

Shore birds and coastal sea birds including cormorants and brown pelicans. Lagoon provides winter habitat for mallards, grebes, coots and gulls. Dabbling ducks and shorebirds are common within site boundaries.

Foothill Yellow-Legged Frogs (CA Species of Special Concern) and Western pond turtles (CA Species of Special Concern) are known to occur within site boundaries (CNDDDB).

Soquel creek supports an important Steelhead trout (FT) run as well as Tidewater goby (FE) habitat and the Pacific lamprey.

Brackish Water Snail (*Tryonia imitator*) is known to occur onsite (CNDDDB). Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Kelp beds are located offshore and Southern sea otters (FT) may potentially be present.

A plant species, Mimic tryonia, inhabits the lagoon. Santa Cruz Tarplant (SE/FT) is known to occur within the site boundaries.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		Capitola-Soquel Chamber of Commerce	(831) 475-6522
O		City of Capitola - Police Dept.	(831) 471-1141
O		Capitola Boat and Bait	(831) 462-2208
O		City of Capitola	(831) 475-7300
T	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
T		Santa Cruz Co. Parks	(831) 454-7900

ADDITIONAL SITE SUMMARY COMMENTS:

<http://www.californiacoastline.org>. Image #s 7220095. High recreational use: Capitola City Beach and Esplanade (restaurant and shopping area). Offshore boat moorings.

3-250 -A Site Strategy - Soquel Creek Inlet

County and Thomas Guide Location

973 Santa Cruz

NOAA CHART

3-250 -A

Latitude N Longitude W

36° 58.2' 121° 56.8'

Last Page Update : 6/20/2011

CONCERNS and ADVICE to RESPONDERS:

Shore birds and coastal sea birds including cormorants and brown pelicans. Lagoon provides winter habitat for mallards, grebes, coots and gulls. The creek supports an important steelhead trout run. A plant species, Mimic tryonia, inhabits the lagoon.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 3-250.1 Objective: Exclude oil by berming, place sorbent boom 30' landward of berm to ensure oil exclusion

This inlet can probably be closed with a sediment dike (medium-grain sand about 300 feet long). If the inlet cannot be closed, use deflection boom to divert oil to the sandy area on the west side of the channel. Use 6' PVC to construct underflow if there is discharge. Assess and advise UC for skimmable oil potential.

Strategy 3-250.2 Objective: shoreside skimming when skimmable oil is present.

Divert oil to west side of channel (near highway bridge), for shoreside skimming and/or collection.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no	type and gear	Boom boat	Skiffs punts	Skimmers No	Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
3-250.1		100			4	2 Stakes or 2 Danforth as needed					600' 6" PVC pipe, or equivalent berming	15	
3-250.2	0	300	0	0	4	stakes and anchors	0	0	1	SSS	0	2	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

From Santa Cruz, take Highway 1 south to Bay Avenue off ramp in Capitola. Turn right onto Bay Avenue. Continue on Bay Avenue and turn right onto Capitola Avenue. Turn right onto Stockton Avenue. Turn left onto Esplanade, and follow to parking lot. Soquel Creek transits through heavily urbanized area of Capitola. Creek deposits on heavily recreated beach adjacent to highly populated area. Creek and lagoon may be naturally bermed off during summer months forming a large lagoon area. Site includes Creek mouth and adjacent beach up to Stockton Ave.

LAND ACCESS: Large trucks and earthmoving equipment accessible.

WATER LOGISTICS:

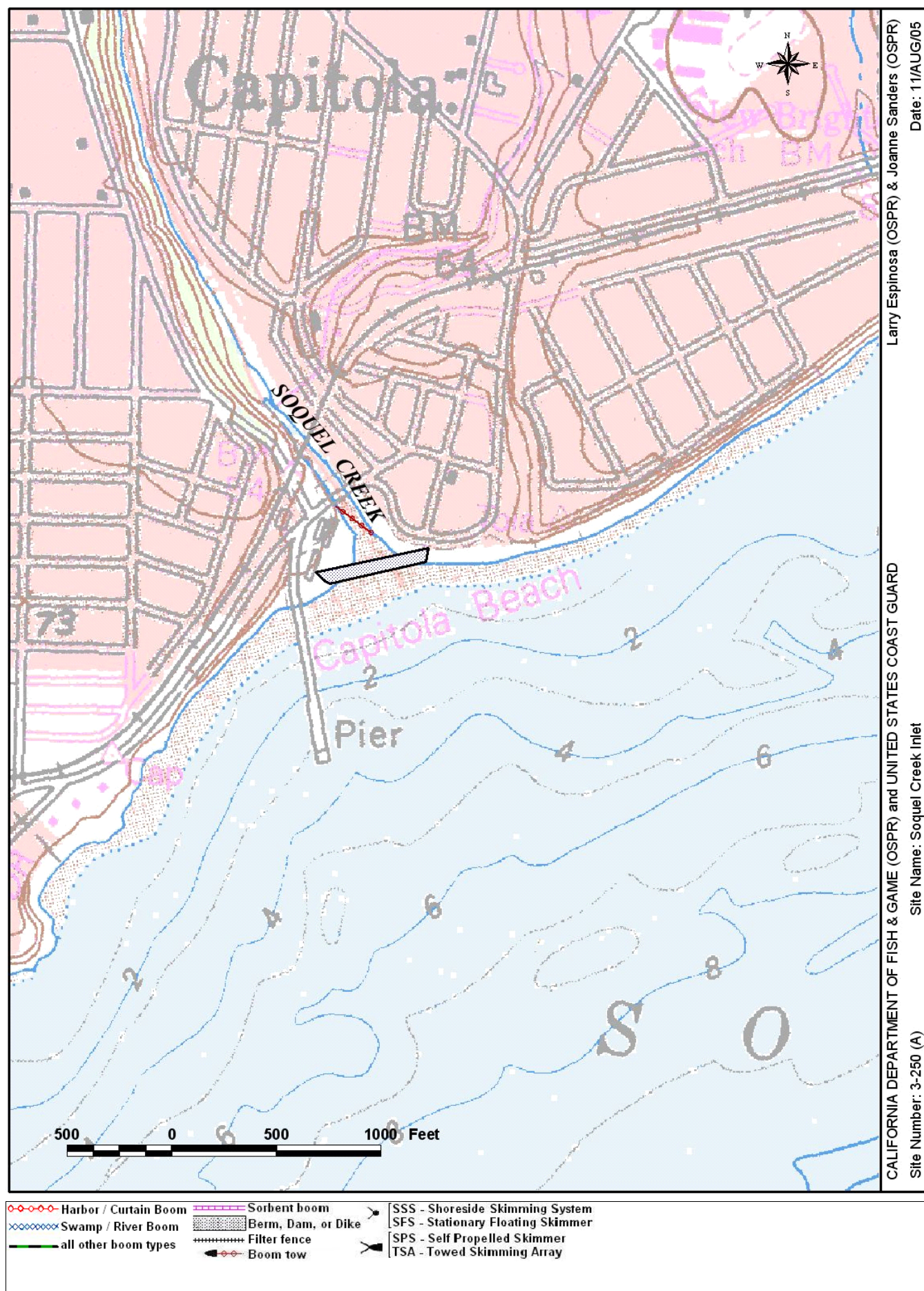
Limitations: depth, obstruction

Launching, Loading, Docking Nearest launch at Santa Cruz Harbor.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



County: **Santa Cruz**
 USGS Quad: **Soquel**

Thomas Guide Location
 973
 NOAA Chart:

Latitude N
 36° 53.6'
 Longitude W
 121° 50.4'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Protected beach area bordered to north by steep cliffs and contiguous to Seacliff State Beach to south. Residential beach homes begin south of main access points. Southern demarcation of Seacliff at mouth of Aptos creek. Fine to medium-grain sandy beach extending approx one mile. Beach backed by steep cliffs and residential homes. Moderate to heavy recreational use with road access. Shorebirds frequent area onshore and off.

SEASONAL and SPECIAL RESOURCE CONCERNS

Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN

Primary resources are those listed below and their respective habitat. Also, Monarch butterflies use area for overwintering Oct-Mar. Primarily in trees, they are susceptible to response disturbances. Staging areas within their boundaries should be made aware of this fact and encouraged to protect them.

Beach area potentially utilized as spawning habitat by Surf Smelt and CA Gunion. Several species of rock fish are known to occur among kelp and rocky habitats. Northern anchovy, Pacific sardine, Leopard sharks and bat rays are common nearshore.

Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Patches of kelp occur nearshore and potentially contain Southern sea otters (FT).

Locally unique plants including Ceanothus integerrimus, Ceanothus thyrsiflorus repens, and Lupinus formosus.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T/O	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
O		Santa Cruz Co. Resource Planner (after hrs)	(831) 471-1121
O		Santa Cruz Co. Resource Planner (work hrs)	(831) 454-2022
T/E/C	Dispatch	CA Dept. Parks & Recreation	(831) 649-2810

ADDITIONAL SITE SUMMARY COMMENTS:

<http://www.californiacoastline.org>. Image #s 6836. 68-acre beach and recreational area. 114 tent and RV sites.

3-260 -C Site Strategy - New Brighton State Beach

County and Thomas Guide Location

973 Santa Cruz

NOAA CHART

3-260 -C

Latitude N Longitude W

36° 53.6' 121° 50.4'

Last Page Update : 6/20/2011

CONCERNS and ADVICE to RESPONDERS:

Locally unique plants including Ceanothus integerrimus, Ceanothus thyrsiflorus repens, and Lupinus formosus.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 3-260.1 Objective: Offshore Containment and Recovery Activities to Minimize or Avert Oil From Impacting Shoreline Habitats and Wildlife

This site is difficult to protect as is most of the outer coast. No on-site protection is feasible.

- a) Recommended response strategy is on-water containment and recovery
- b) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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3-260.1

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LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Take park Avenue exit from Highway 1 (between Capitola and Aptos) and bear west. Turn left onto McGregor Road (frontage road to Highway 1), then turn right to enter New Brighton Beach day use area. Protected beach area bordered to north by steep cliffs and contiguous to Seacliff State Beach to south. Residential beach homes begin south of main access points. Southern demarcation of Seacliff at mouth of Aptos creek.

LAND ACCESS: Access thru State Beach gate. Contact Parks Personnel.

WATER LOGISTICS:

Limitations: depth, obstruction

Launching, Loading, Docking Beach launch or Santa Cruz harbor.

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CDFG - OSPR & USCG Site: 3-260 Name: New Brighton State Beach

Mike Schommer OSPR & Jo Sanders OSPR Date: Feb 25, 2008

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> ○-○-○ Harbor / Curtain Boom ××××× Swamp / River Boom — all other boom types | <ul style="list-style-type: none"> ▨ Sorbent boom ▨ Berm, Dam, or Dike ▨ Filter fence ▨ Boom tow | <ul style="list-style-type: none"> ➤ SSS - Shoreside Skimming System ➤ SFS - Stationary Floating Skimmer ➤ SPS - Self Propelled Skimmer ➤ TSA - Towed Skimming Array |
|---|--|--|

County: **Santa Cruz**
 USGS Quad: **Soquel**

Thomas Guide Location
 973 labeled Moosehead Cr
 NOAA Chart:

Latitude N
 36° 58.0'
 Longitude W
 121° 54.6'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Beach length approx 400 yds long by 60 yds wide. Creek and lagoon are in heavily urbanized area. Aptos merchants adjacent to creek. Steep cliffs south of beach area. Commercial wharf on western end of beach extending out to defunct concrete vessel S.S. Palo Alto. Ephermal creek meandering thru fine sandy beach. Beach has moderate to heavy recreational use. Minor marsh along channel parallel to seawall. Creek channel may vary depending on upstream flows and beach accretion.

SEASONAL and SPECIAL RESOURCE CONCERNS

Year round.

RESOURCES OF PRIMARY CONCERN

Primary resources are listed below along with their respective habitat.

Shore birds and coastal sea birds including cormorants and brown pelicans. Shorebirds are common and utilize the creek throughout beach area.

California sea lions, harbor seals and Southern sea otters (FT) are found offshore.

In the creek, Tidewater goby (FE) are present; Steelhead trout (FT) are present in winter, spring and fall. Grunion, surf smelt and several species of surfperch are known to spawn/ forage along these beaches.

The Brackish Water Snail (Tryonia imitator) is found within watershed. Pismo clam (Tivela stultorum) are found along beach fronts. Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Kelp beds are located offshore and Southern sea otters (FT) are potentially present.

Dudley's lousewort (State Listed Rare Species) is known to occur within site.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		La Selva Beach Recreation District Clubhouse	(831) 684-0838
O		Seascape Resort and Conference Center	(831) 688-6800
T/O	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
O		Santa Cruz Co. Resource Planner (after hrs)	(831) 471-1121
O		Santa Cruz Co. Resource Planner (work hrs)	(831) 454-2022
	Dispatch	CA Dept. Parks & Recreation	(831) 649-2810

ADDITIONAL SITE SUMMARY COMMENTS:

High recreational use at both Capitola and (downcoast) at Seacliff State Beach. Seacliff State Beach has fishing pier/ concrete ship, 85-acre beach, 26 RV sites and year-round day use parking. Rio del Mar beach (at downcoast end of Seacliff State Beach) has a county parking lot (100 cars) state parking lot (50 cars), beach access and private homes and rental units near the beach. Proceeding downcoast, there is also Seascape Resort and Conference Center (831-688-6800) and La Selva Beach (private access via locked gate: Contact La Selva Beach Recreation District Clubhouse, 314 Estrella Avenue, La Selva Beach. 831-684-0838).

3-270 -A Site Strategy - Aptos Creek Inlet

County and Thomas Guide Location

973 labeled Moosehead Cr Santa Cruz

NOAA CHART

3-270 -A

Latitude N

Longitude W

36° 58.0' 121° 54.6'

Last Page Update :

6/20/2011

CONCERNS and ADVICE to RESPONDERS:

Shore birds and coastal sea birds including cormorants and brown pelicans. California sea lions, harbor seals and sea otters are found offshore. In the creek, tidewater goby (FE) is present; steelhead trout are present in winter, spring and fall.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 3-270.1 Objective: Exclude oil by berming, place sorbent boom 30' landward of berm to ensure oil exclusion

Close off stream mouth with sediment dike (medium to fine-grain sand) about 400 feet long. Orient dike east/west and place it about 50 feet seaward of piling. Use 6' PVC piping to construct underflow dam if there is discharge.

Note: After major storms, sediment supply may be limited.

Strategy 3-270.2 Objective: Natural oil collection - assessment and action

If the large berm-ridge and runnel (trough) configuration is present during a spill, a considerable amount of oil could accumulate in the runnel. Assess to see if runnel is present and if oil is accumulating. Advise UC and what kind of collection equipment would function.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no	type and gear	Boom boat	Skiffs punts	Skimmers No	Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
3-270.1											600' 6" PVC pipe, dozer or equivalent berming	20	
3-270.2	0	0	0	0	0		0	0	0	0			

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

From Santa Cruz, take Highway 1 south to Sea Cliff Beach/State Park Drive off ramp (turn right). Turn left onto Center Avenue. Veer right onto Sea Cliff Drive. At the stop sign, turn right onto Spreckels Drive. At the bottom of the hill, turn right onto Treasure Island Drive. The road ends at the beach front/Esplanade. Turn right into the parking lot. Beach length approx 400 yds long by 60 yds wide. Creek and lagoon are in heavily urbanized area. Aptos merchants adjacent to creek. Steep cliffs south of beach area. Commercial wharf on western end of beach extending out to defunct concrete vessel S.S. Palo Alto.

LAND ACCESS: Beach accessible to vehicles.

WATER LOGISTICS:

Limitations: depth, obstruction

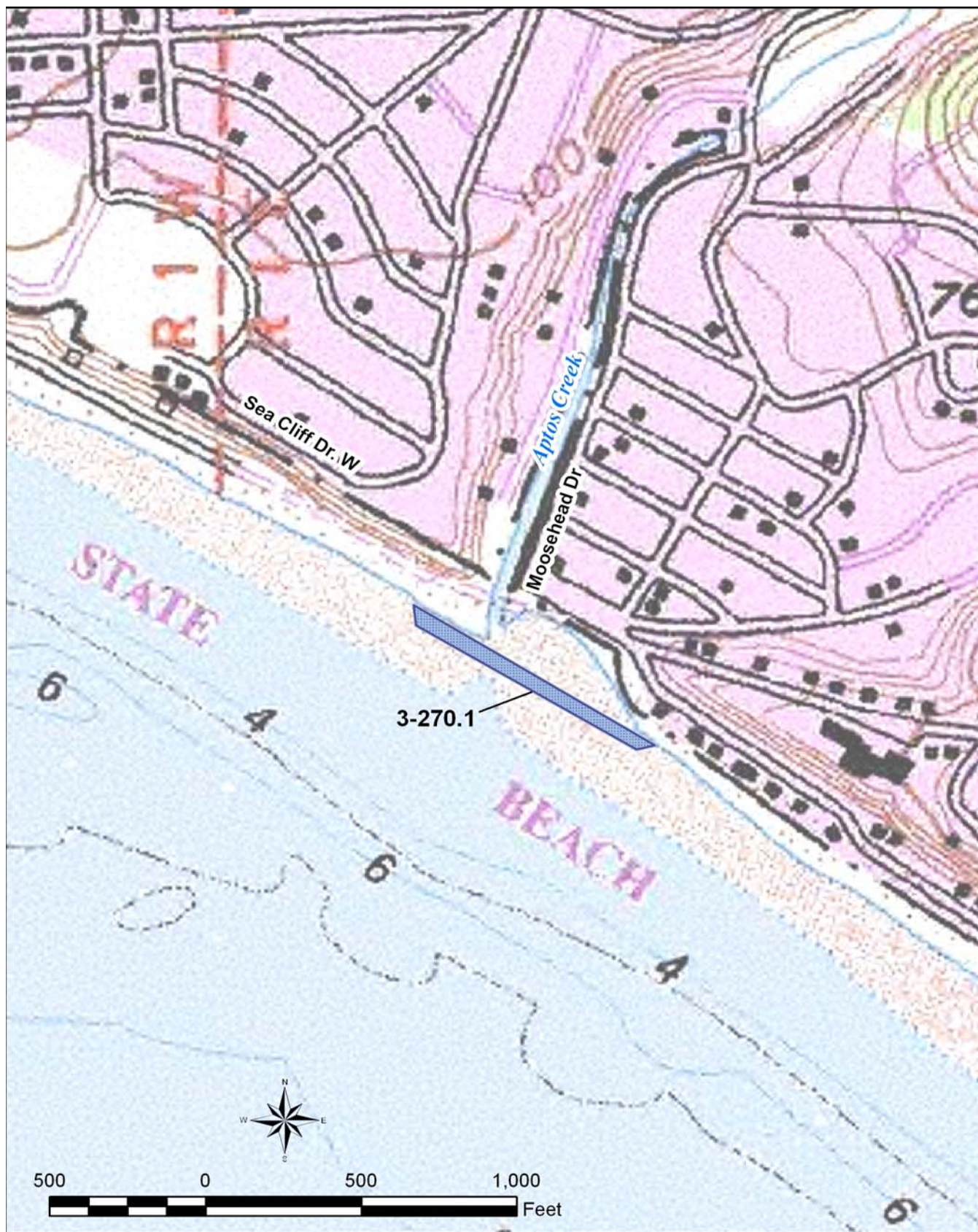
Launching, Loading, Docking Santa Cruz harbor.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

High recreational use at both Capitola and (downcoast) at Seacliff State Beach. Seacliff State Beach has fishing pier/concrete ship, 85-acre beach, 26 RV sites and year-round day use parking. Rio del Mar beach (at downcoast end of Seacliff State Beach) has a county parking lot (100 cars) state parking lot (50 cars), beach access and private homes and rental units near the beach. Proceeding downcoast, there is also Seascape Resort and Conference Center (831-688-6800) and La Selva Beach (private access via locked gate: Contact La Selva Beach Recreation District Clubhouse, 314 Estrella Avenue, La Selva Beach. 831-684-0838).

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CDFG - OSPR & USCG Site: 3-270 Name: Aptos Creek Inlet

Mike Schommer OSPR & Jo Sanders OSPR Date: Feb 19, 2008

<ul style="list-style-type: none"> Harbor / Curtain Boom Swamp / River Boom all other boom types 	<ul style="list-style-type: none"> Sorbent boom Berm, Dam, or Dike Filter fence Boom tow 	<ul style="list-style-type: none"> SSS - Shoreside Skimming System SFS - Stationary Floating Skimmer SPS - Self Propelled Skimmer TSA - Towed Skimming Array
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County: **Santa Cruz**
 USGS Quad: **Watsonville West**

Thomas Guide Location
 994 and 1014; 1014
 NOAA Chart:

Latitude N
 36° 55.8'
 Longitude W
 121° 52.1'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

State beaches approx 60yds wide and contiguous to North Rio Del Mar State Beach, and Sunset Beach adjacent to South. Easy access and therefore heavy recreational impacts. Beach area backed by steep, vegetated cliffs. Manresa State Beach and Sunset State Beach. Fine to medium grain sandy beaches. Expansive beach with easy access with potentially high recreation.

SEASONAL and SPECIAL RESOURCE CONCERNS

Year round.

RESOURCES OF PRIMARY CONCERN

All beach area is critical habitat for the western snowy plover (FT). Use caution when conducting any beach response and especially in the dunes. Nesting occurs Feb to Sept and site serves as rookery all year long.

California least terns (SE/FE), western snowy plover (FT), and other shore birds and sea birds are present.

The black legless lizard (CA Species of Special Concern) uses the foredunes near Shell Road (CNDDDB).

Grunion, surf smelt and several species of surfperch are known to spawn/forage along these beaches.

Pismo clams are present in low numbers along the intertidal shoreline. Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Kelp beds are potentially located nearshore and likely contain Southern seas otters.

The Monterey spineflower (FT) present in the dunes at Manresa State Beach and the Robust spineflower (FE) south of the Manresa State Beach entrance. Locally unique plant species include: *Habernaria elegans*, *Clarkia rebicunda blasdalei*, *Salix hindsiana*, *Agrostis californica*, *Cirsium Quercetorum*, *Wyethia* sp., and *Gnaphalium bicolor*. Other locally unique plants include *Carex pansa*, *Chorizanthe* sp., *Poa douglasii*, and *Erysimum ammophilum*.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

High recreational use. Manresa Beach: 63 tent campsites, 300 day use parking; major surfing area.

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T/O	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
O		Santa Cruz Co. Resource Planner (after hrs)	(831) 471-1121
O		Santa Cruz Co. Resource Planner (work hrs)	(831) 454-2022
T/E/C	Dispatch	CA Dept. Parks & Recreation	(831) 649-2810

ADDITIONAL SITE SUMMARY COMMENTS:

3-280 -A Site Strategy - Manresa & Sunset State Beaches

County and Thomas Guide Location

NOAA CHART

994 and 1014; 1014 Santa Cruz

3-280 -A

Latitude N Longitude W

36° 55.8' 121° 52.1'

Last Page Update : 6/20/2011

CONCERNS and ADVICE to RESPONDERS:

California least terns (SE/FE), western snowy plover (FT), and other shore birds and sea birds are present. Pismo clams are present in low numbers. The black legless lizard (CA Species of Special Concern) uses the foredunes near Shell Road. Plant species include the Monterey spineflower (FT), present in the dunes at Manresa State Beach, and the robust spineflower (FE) south of the Manresa State Beach entrance.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 3-280.1 Objective: Offshore Containment and Recovery Activities to Minimize or Avert Oil From Impacting Shoreline Habitats and Wildlife

This site is difficult to protect as is most of the outer coast. No on-site protection is feasible.

- a) Recommended response strategy is on-water containment and recovery
- b) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
3-280.1								0			

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Manresa: Take San Andreas Road from Highway 1 (between Rio Del Mar and Watsonville) and go west toward ocean. Approximately 1.5 miles (intersection with Mar Monte Avenue) bear right and proceed about another .5 miles. Turn right onto Country Road to get to Manresa Beach (Country Road occurs as San Andreas Road makes a sharp bend to the south). Sunset: To get to Sunset Beach from Manresa, continue south on San Andreas Road for approximately 3 miles and turn right onto Sunset Beach Road. Road will terminate at beach. Alternatively, from Highway 1 north near Watsonville, take Highway 129/Riverside Drive exit, cross Highway 1 to west side, turn right onto Lee Road, left on West Beach, right on San Andreas Road, and proceed approximately 2 miles. Turn left onto Sunset Beach Drive and follow to end. State beaches approx 60yds wide and contiguous to North Rio Del Mar State Beach, and Sunset Beach adjacent to South. Easy access and therefore heavy recreational impacts. Beach area backed by steep, vegetated cliffs.

LAND ACCESS: Beach accessible to vehicles and heavy equipment.

WATER LOGISTICS:

Limitations: depth, obstruction

Launching, Loading, Docking Santa Cruz harbor or beach launch.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CDFG - OSPR & USCG Site: 3-280 Name: Sunset & Manresa State Beaches

Mike Schommer OSPR & Jo Sanders OSPR Date: Feb 19, 2008

County: **Santa Cruz**
USGS Quad: **Moss Landing**

Thomas Guide Location
1014
NOAA Chart:

Latitude N
36° 52.2'
Longitude W
121° 49.5'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Sunset beach lies directly to north and the southern demarcation point at Pajaro rivermouth. Fine to medium grain sandy beach. Low gradient beach backed by vegetated dunes. Both Sunset and Palm beach offer quality habitat for threatened Snowy Plover as recreation impacts are lessened due remote location.

SEASONAL and SPECIAL RESOURCE CONCERNS

Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN

Shoreline habitat has high potential for critical nesting habitat for least terns (SE/FE) and snowy plovers (FT). All beach area is critical habitat for the western snowy plover (FT). Use caution when conducting any beach response and especially in the dunes. Nesting occurs Feb to Sept and site serves as rookery all year long.

California least terns (SE/FE), western snowy plover (FT), and other various shore birds and sea birds are present year round.

Grunion, surf smelt and several species of surfperch are known to spawn/ forage along these beaches.

Globose Dune beetle (*Coelus globosus*) are located within site boundaries. Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Kelp beds are potentially located nearshore and likely contain Southern seas otters.

Monterey spineflower (FT), Coast Wallflower [*Erysimum ammodophilum*], *Gilia tenuiflora* ssp. *arenaria* (greater yellowthroat *gilia*)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
T/O	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
O		Santa Cruz Co. Resource Planner (after hrs)	(831) 471-1121
O		Santa Cruz Co. Resource Planner (work hrs)	(831) 454-2022
E/T	Dispatch	CA Dept. Parks & Recreation	(831) 649-2810

ADDITIONAL SITE SUMMARY COMMENTS:

Recreational use, waterfront resort, conference center, private and rental housing.

3-285 -A Site Strategy - Sunset St (south)/ Palm Beach

County and Thomas Guide Location

1014 Santa Cruz

NOAA CHART

3-285 -A

Latitude N

Longitude W

36° 52.2' 121° 49.5'

Last Page Update :

6/20/2011

CONCERNS and ADVICE to RESPONDERS:

California least terns (SE/FE), western snowy plover (FT), and other shore birds and sea birds are present. Locally unique plants in this area include: Carex pansa, Chorizanthe sp., Poa douglasii, and Castilleja latifolia.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 3-285.1 Objective: Offshore Containment and Recovery Activities to Minimize or Avert Oil From Impacting Shoreline Habitats and Wildlife

This site is difficult to protect as is most of the outer coast. No on-site protection is feasible.

- a) Recommended response strategy is on-water containment and recovery
- b) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
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3-285.1

0

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

From Hwy 1 in southern Santa Cruz County just North of Pajaro River, turn west on W. Beach St to Palm Beach Park entrance. Sunset beach lies directly to north and the southern demarcation point at Pajaro rivermouth.

LAND ACCESS: Thru State parks gate, contact Parks personnel.

WATER LOGISTICS:

Limitations: depth, obstruction

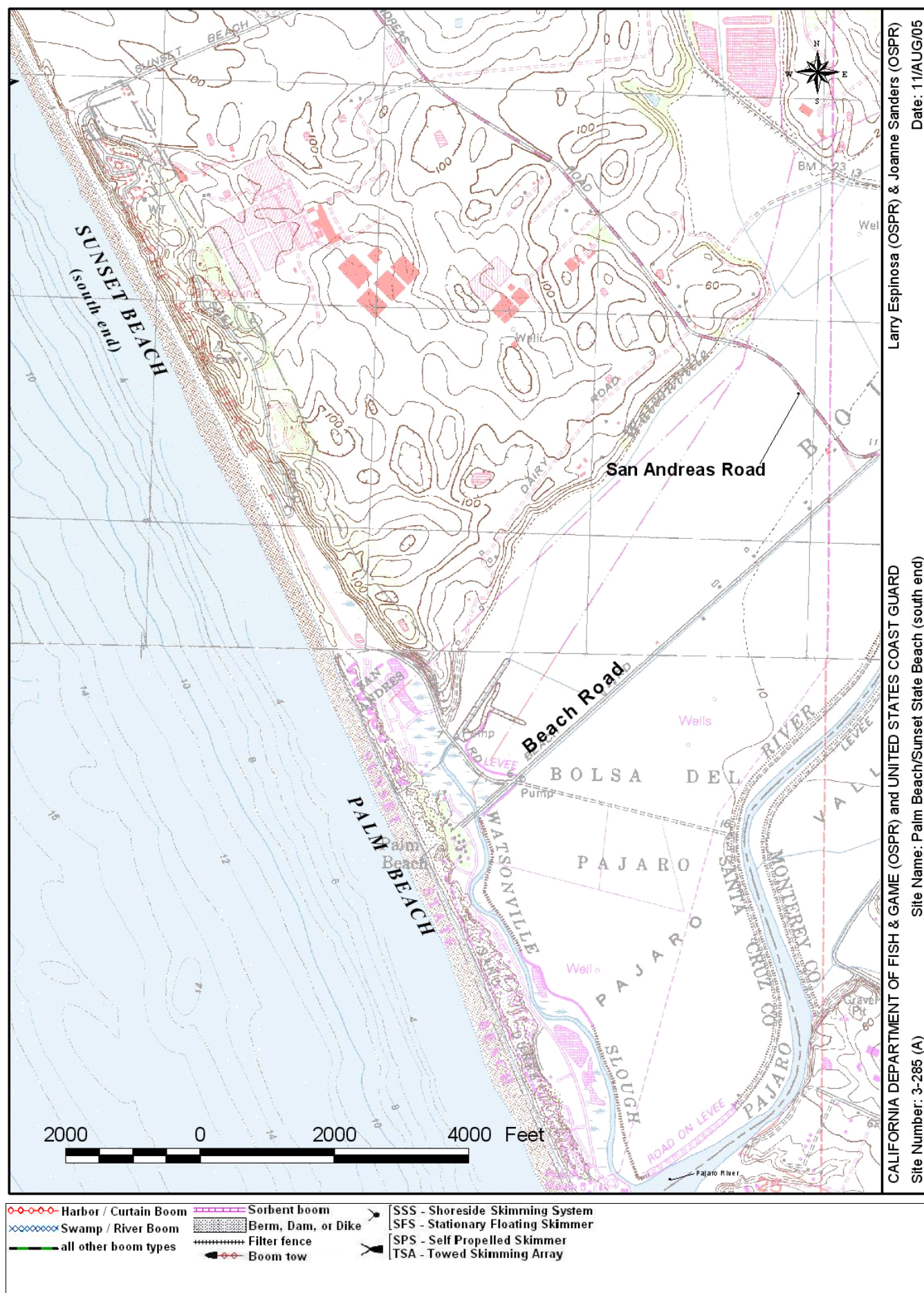
Launching, Loading, Docking Santa Cruz harbor or beach launch.

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



County: **Santa Cruz and Monterey**
 USGS Quad: **Moss Landing**

Thomas Guide Location
 1035
 NOAA Chart:

Latitude N
 36° 50.0'
 Longitude W
 121° 48.9'

Last Page Update : 6/20/2011

SITE DESCRIPTION:

Pajaro River marks the demarcation between Santa Cruz and Monterey Counties. The rivermouth is located at the NW edge of Zmudowski State Beach. Sunset/Palm beach lie to the north of Pajaro River. Freshwater flows and sand accretions determine waterway and may change seasonally. Site includes adjacent beach area approx 3/4 mile in width. Extensive salt marsh habitat in Watsonville Slough north of the river, and along the banks of the Pajaro River. The inlet is adjacent to Zmudowski State Beach, which runs downcoast from the inlet. River mouth may or may not be breached, which determines how much area behind the beach is lagooned. When river is not flowing, the pocket lagoon is mostly filled in, with established vegetation at lagoon edge. Mid-lagoon is a slightly elevated mud island, which may not be present when the river is flowing; when it is present, birds use it as a resting area. The configurations of river, lagoon, beach face and river outlet are all highly seasonally variable.

SEASONAL and SPECIAL RESOURCE CONCERNS

Year round for birds and Oct-Apr for steelhead. Rivermouth will naturally berm off during summer to fall months until breached by significant outflow.

RESOURCES OF PRIMARY CONCERN

All beach area is critical habitat for the western snowy plover (FT). Use caution when conducting any beach response and especially in the dunes. Nesting occurs Feb to Sept and site serves as rookery all year long.

Western snowy plovers (FT), black-necked stilts, American avocets and waterfowl (e.g., coots and mallards), and coastal seabirds such as cormorants and brown pelicans. Bank swallows (ST) are known to occur near the river mouth.

The black legless lizard (CA Species of Special Concern) uses the vegetated dune habitat in this area. The globose dune beetle uses the habitat between the ocean and margins of the dunes.

Steelhead trout (FT) are present in Pajaro watershed. Tidewater goby (FE) are found in the river mouth lagoon and adjacent slough.

Pismo clams are located along intertidal zone. Black Abalone (FE) are found in intertidal and shallow subtidal zones down to a depth of about 20 feet and spawning occurs May-Aug.

Kelp beds are potentially located nearshore and likely contain Southern seas otters.

Monterey spineflower (FT) occurs in the dunes south of the river mouth.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison (916) 653-9125), and the Northwest Information Center, (Leigh Jordan, Sonoma State College (707) 664-0880) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
O		Pajaro Dunes Association	(831) 761-6293
T	Superintendent	Monterey Bay National Marine Sanctuary	(831) 647-4201
E/T	Dispatch	CA Dept. Parks & Recreation	(831) 649-2810

ADDITIONAL SITE SUMMARY COMMENTS:

<http://www.californiacoastline.org> Image 200401795

3-290 -A Site Strategy - Pajaro River Inlet

County and Thomas Guide Location

1035 Santa Cruz and Monterey

NOAA CHART

3-290 -A

Latitude N

Longitude W

36° 50.0' 121° 48.9'

Last Page Update : 6/20/2011

CONCERNS and ADVICE to RESPONDERS:

Large numbers of birds, including waders (e.g. black-necked stilts, American avocets) and waterfowl (e.g. coots and mallards), and coastal seabirds such as cormorants and brown pelicans. Steelhead trout (FT) are also present. Tidewater gobies (FE) are found in the river mouth lagoon and adjacent slough. Bank swallows (ST) are reported from the river mouth. Monterey-spineflower (FT) occurs in the dunes south of the river mouth. A State Park Natural Preserve, a sub-unit of Zmudowski State Beach, encompasses the river mouth and the adjacent beach to the south. The black legless lizard (CA Species of Special Concern) uses the vegetated dune habitat in this area. The globose dune beetle uses the habitat at the ocean margin of the dunes.

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Western snowy plover nesting at this site can restrict response activity at this site. Critical area is usually roped off, but get a determination about plover presence from IC/UC environmental scientist before disturbing site.

Strategy 3-290.1 Objective: Exclusion by booming

Using diagonal booming inside the lagoon as backup to sediment dike or when less disturbing actions are appropriate. Stranding oil on the seawall/rip-rap at the east end of the Pajaro Dunes Colony development. Collection point will vary based on seasonal channel configuration. Use 6" PVC piping to allow underflow discharge if necessary. Beach access available to either side of channel.

Strategy 3-290.2 Objective: Exclude oil by berming, should the berm fail, or conditions not allow berm construction, use defective booming to deflect and collect surface contaminants.

River flow may be sufficient to prevent oil from traveling up the river channel. If necessary when the river is flowing, berm outlet using native sands. If there is outflow, underflow pipes will be necessary to allow outflow. If the river is not flowing, reinforce natural berm with native sand to prevent oil washover from surge. Back berm with additional swampboom and sorbent boom to prevent high surf washover.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no	type and gear	Boom boat	Skiffs punts	Skimmers No	Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
3-290.1	0	1400		300	18	12 Stakes & 6 Danforth, as needed		1	0		1200' 6" PVC, dozer or equivalent to build sand berm	10	
3-290.2		1400		1400	18	12 Stakes & 6 Danforth, as needed			0		6" PVC pipe & fittings, dozer or equivalent berming equipment	10	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Access to the State Park coastal parking area, which gives ready access to the beach, is off Highway 1 at Struve Road via Gilbertson Road. Access to the Pajaro Inlet is by way of a locked gate at the upcoast end of the parking lot. During an oil spill emergency, this gate will be open. Follow the unpaved road to the end. At that point is the designated 4WD access to the beach.

Additional access to the upcoast end of the inlet is available through the Pajaro Dunes Colony [2661 Beach Road, Watsonville]; permission to access Colony residential roads may be arranged by calling Pajaro Dunes front office phone (831-722-4671). Equipment access is available upcoast of the Pajaro River via Palm Beach (which fronts the Pajaro Dunes Colony) and/or Sunset State Beach, off San Andreas Road. Pajaro River marks the demarcation between Santa Cruz and Monterey Counties. The rivermouth is located at the NW edge of Zmudowski State Beach. Sunset/Palm beach lie to the north of Pajaro River. Freshwater flows and sand accretions determine waterway and may change seasonally. Site includes adjacent beach area approx 3/4 mile in width.

LAND ACCESS: Contact State Parks for vehicle access.

WATER LOGISTICS:

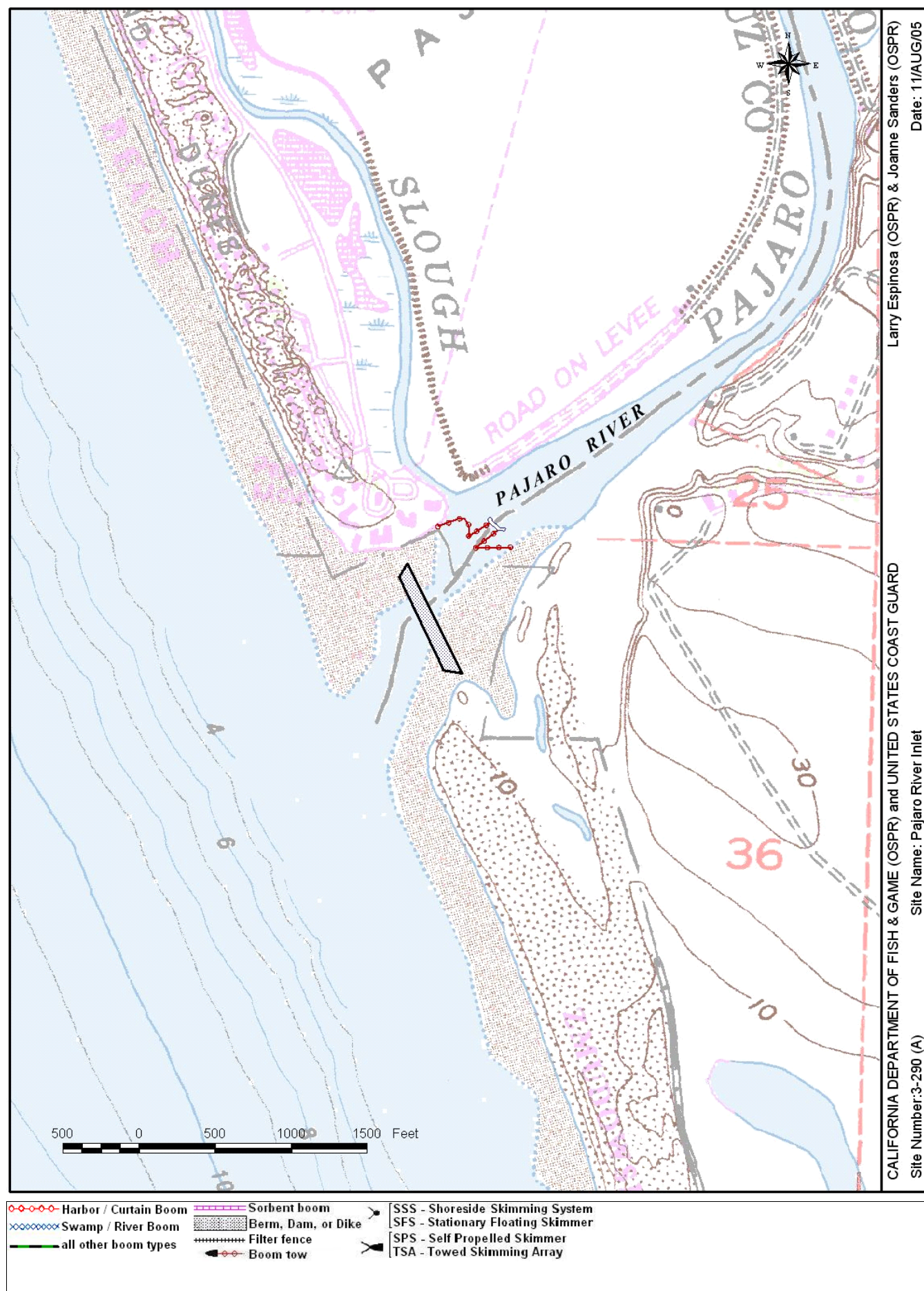
Limitations: depth, obstruction

Launching, Loading, Docking Santa Cruz harbor or beach launch.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



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9872.2 Cultural and Other Resources at Risk

9872.21 Cultural Resources, Historic and Archeological Resources

See [Section 9802.1](#), Individual Site Summaries and see [Section 9840](#) for contact table

9872.22 Essential Fish Habitat - see [Section 9802.2](#)

9872.23 Other Resources and Species of Concern

Wildlife in Santa Cruz and Monterey Counties is abundant and diverse. Offshore waters serve as migratory corridors for several whale species. Near shore waters and coastal marshes are critical components of the Pacific Flyway. Local streams and lagoons support spawning runs of salmon and steelhead. Special status species include southern sea otters, snowy plovers, and brown pelicans.

Both Monterey and Santa Cruz Counties lie within the Monterey Bay National Marine Sanctuary, an indication of the high non-market values placed on living natural resources and their habitats.

Coastal waters support intensive commercial fishing efforts. To counterbalance fishing effort and to not only protect but enhance fish populations, Marine Protected Areas have been established along the coastline. More information and maps of these areas are available at the California Department of Fish and Game website (http://www.dfg.ca.gov/mlpa/ccmpas_list.asp).

The Monterey Bay Aquarium is a focal point of tourist interest. Sport fishing, SCUBA diving, kayaking and whale-watching are but a few of the many tourist activities dependent upon healthy and abundant wildlife populations.

Monterey Bay is home to several academic and private research institutions, which are home to world-class investigations on a broad spectrum of marine science. These facilities include Long Marine Laboratory (University of California at Santa Cruz), Moss Landing Marine Laboratory (California State University), Monterey Bay Aquarium Research Institute, and Hopkins Marine Station (Stanford University). California State University, Monterey Bay also has an active teaching program and research efforts focused on marine science.

These remarks apply to all GRAs within the area covered by the Central Coast Area Contingency Plan (ACP3).

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9872.3 Economic Sites

Strictly economic resources are designated as the third priority for dedication of oil spill response resources, following human health and safety and environmental resources. The economic sites are ranked using a continuation of the environmental scale with D, E, and F categories. Economic resources that have a greater potential for long-term damages receive a higher rank or priority for emergency response.

The following criteria or definitions are used to categorize economic resources in terms of priority for response:

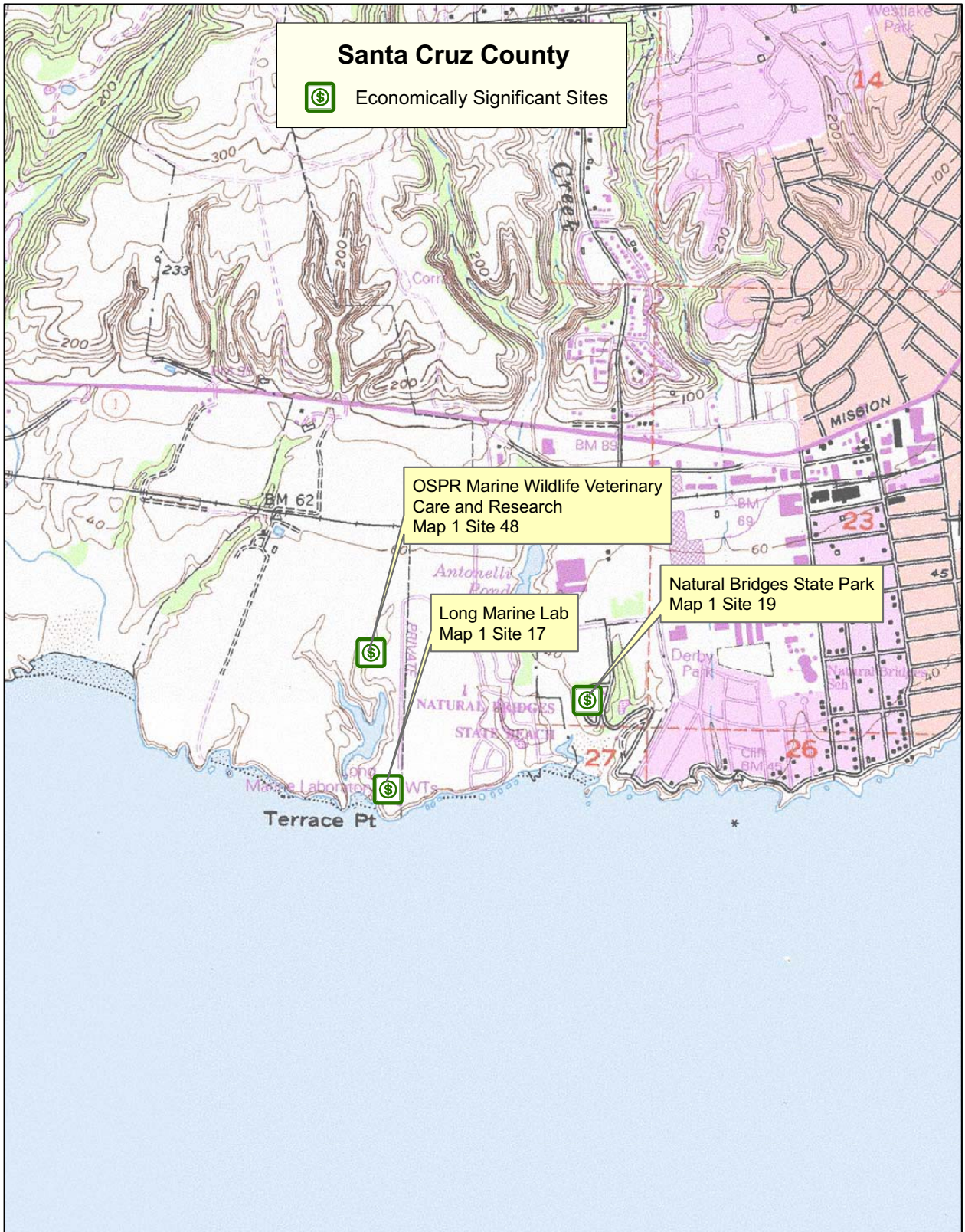
D = Economic activities and resources which require high water quality for their operations or existence. Resources that fall into this category would face severe, long term economic impacts from a spill.

E = Facilities, businesses, or resources which directly use coastal or bay waters within their economic activity and which are at risk of oiling from a spill in marine waters. The resources falling into this category would face significant disruption of their activity, but shorter term potential damages from oiling that resources "D" category.

F = This category contains marine associated facilities, businesses and resources. These resources would face economic impacts from a marine spill, but do not depend directly on marine water for their economic base. Resources in this category will tend to face less severe damages than those identified in categories D or E.

In the following section, economic sites found within the GRA are listed in table format, which contain information such as latitude, longitude, economic sensitivity, etc. Following the table are diagrams denoting the location of an economically sensitive site(s). Diagrams are organized alphabetically by county, then numerically by map and site number.

Economic Sites in GRA 2							
Map Description	Site Name	Site Description	Latitude	Longitude	Economic Sensitivity	Site Function	Site Address
Map 1 Site 17 Santa Cruz County	Long Marine Lab	salvage intake and discharge lines near Terrace Pt.	36.95	-122.06	D	Research Facility	University of California, Santa Cruz Santa Cruz, CA 95064
Map 1 Site 19 Santa Cruz County	Natural Bridges State Park		36.95	-122.06	E	Recreational Area	
Map 1 Site 20 Santa Cruz County	City of Santa Cruz Municipal Wastewater Treatment Facility	Point Santa Cruz	36.96	-122.03	E	Wastewater Discharge Lines	
Map 1 Site 21 Santa Cruz County	Lighthouse Field State Beach	Point Santa Cruz	36.95	-122.03	E	Recreational Area, Major Surfing Area	
Map 1 Site 22 Santa Cruz County	Cowell Beach	Steamer's Lane	36.96	-122.02	E	Recreational Area, Windsurfing, Major Surfing Area	
Map 1 Site 23 Santa Cruz County	Dream Inn on the Beach	Waterfront Hotel	36.96	-122.02	F	Hotel	
Map 1 Site 24 Santa Cruz County	San Jose Municipal Wharf	Foot of Washington Street and Beach Sts.	36.96	-122.02	E	Fishing Pier, Significant Tourist Destination, Small Boat Hoist	
Map 1 Site 25 Santa Cruz County	Boat Anchorage	Either side of the Santa Cruz Wharf in 5 Fathoms, Sand Bottom	36.96	-122.02	E	Boat anchorage	
Map 1 Site 26 Santa Cruz county	Santa Cruz Beach Boardwalk		36.96	-122.02	F	Recreational Area	400 Beach Street Santa Cruz, CA 95060
Map 1 Site 27 Santa Cruz County	San Lorenzo River		36.96	-122.01	E		
Map 1 Site 28 Santa Cruz County	Santa Cruz Small Craft Harbor	Vessels up to 100' w/maximum drafts 10' at MLLW	36.97	-122.00	E	960 Berths, 3 Boat Ramp Lanes, Boat Hoist, Visitor Berths	135 5th Ave. Santa Cruz, CA 95060
Map 1 Site 29 Santa Cruz County	Small Craft Refueling Dock	Santa Cruz Harbor	36.96	-122.00	E	Fuel	
Map 1 Site 30 Santa Cruz County	Santa Cruz Yacht Club	Santa Cruz Harbor	36.97	-122.00	E	Boat-Dry Storage Yard, 2 Ton Boat Hoist, 120' Linear Dock Space	244 4th Ave., Santa Cruz 95060
Map 1 Site 31 Santa Cruz County	Harbor Marina, Inc.	Santa Cruz Harbor	36.97	-122.00	E	60-ton Travelfit, Complete Boat Service, Repair	495 Lake Avenue, Santa Cruz
Map 1 Site 32 Santa Cruz County	Twin Lakes State Beach		36.96	-122.00	E	Recreational Area	
Map 1 Site 33 Santa Cruz County	Seabright Beach	Unit of Twin Lakes State Beach	36.96	-122.01	E	Swimming, Recreational Area	
Map 1 Site 34 Santa Cruz County	Pleasure Point Beach and Overlook	Squel Point	36.96	-121.97	E	Major Surfing Area	
Map 1 Site 42 Santa Cruz County	Seascope Resort and Conference Center	Aptos	36.95	-121.87	F	Resort	120 Seascope Ridge Dr. Aptos, CA 95003
Map 1 Site 44 Santa Cruz County	LaSelva State Beach	Marneza	36.93	-121.86	E	Recreational Area, Major Surfing Area	
Map 1 Site 45 Santa Cruz County	Sunset State Beach	San Andreas Road off Hwy 1	36.89	-121.83	E	Recreational Area, 90 Tent and RV Sites	
Map 1 Site 51 Santa Cruz County	Pajaro Dunes	Pajaro River	36.86	-121.82	F	Waterfront Resort, Conference Center, Residential Area	
Map 1 Site 47 Santa Cruz County	City of Watsonville Municipal Wastewater Treatment Plant	Pajaro River	36.89	-121.78		Wastewater Discharge Lines	1715 W. Beach Street, Watsonville 1451 Shaffer Rd. Santa Cruz, CA 95064
Map 1 Site 48 Santa Cruz County	OSPR Marine Wildlife Veterinary Care and Research Center	have saltwater intake and discharge lines	36.95	-122.07	D	Research facilities	175 West Cliff Dr. Santa Cruz, CA 95060
Map 1 Site 49 Santa Cruz County	West Coast Santa Cruz Hotel		36.96	-122.03	F	Waterfront hotel	
Map 1 Site 50 Santa Cruz County	Rio del Mar Beach		36.97	-121.90	E	Recreational area	

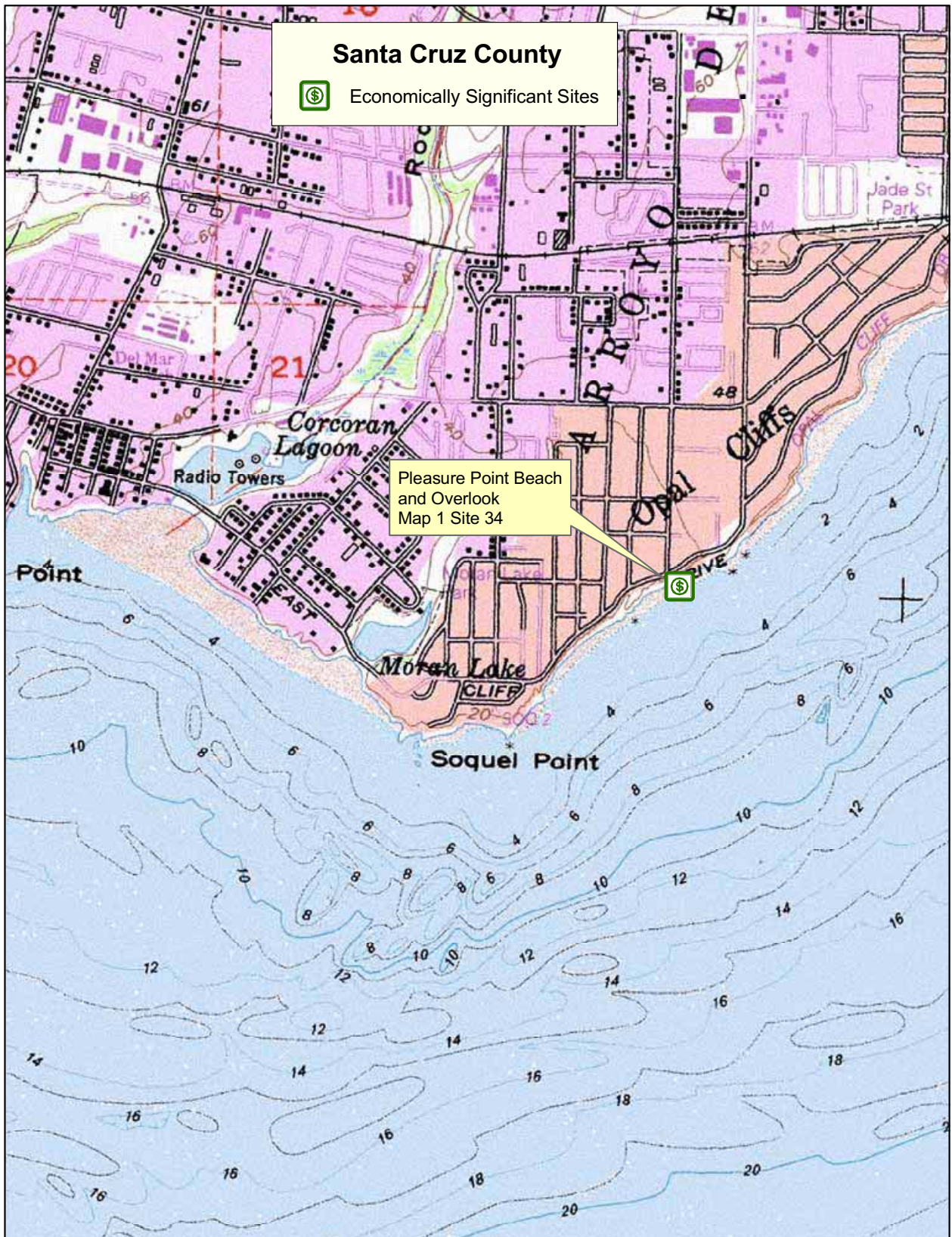


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California Department of Fish and Game
Office of Spill Prevention and Response
Santa Cruz County Layout 007

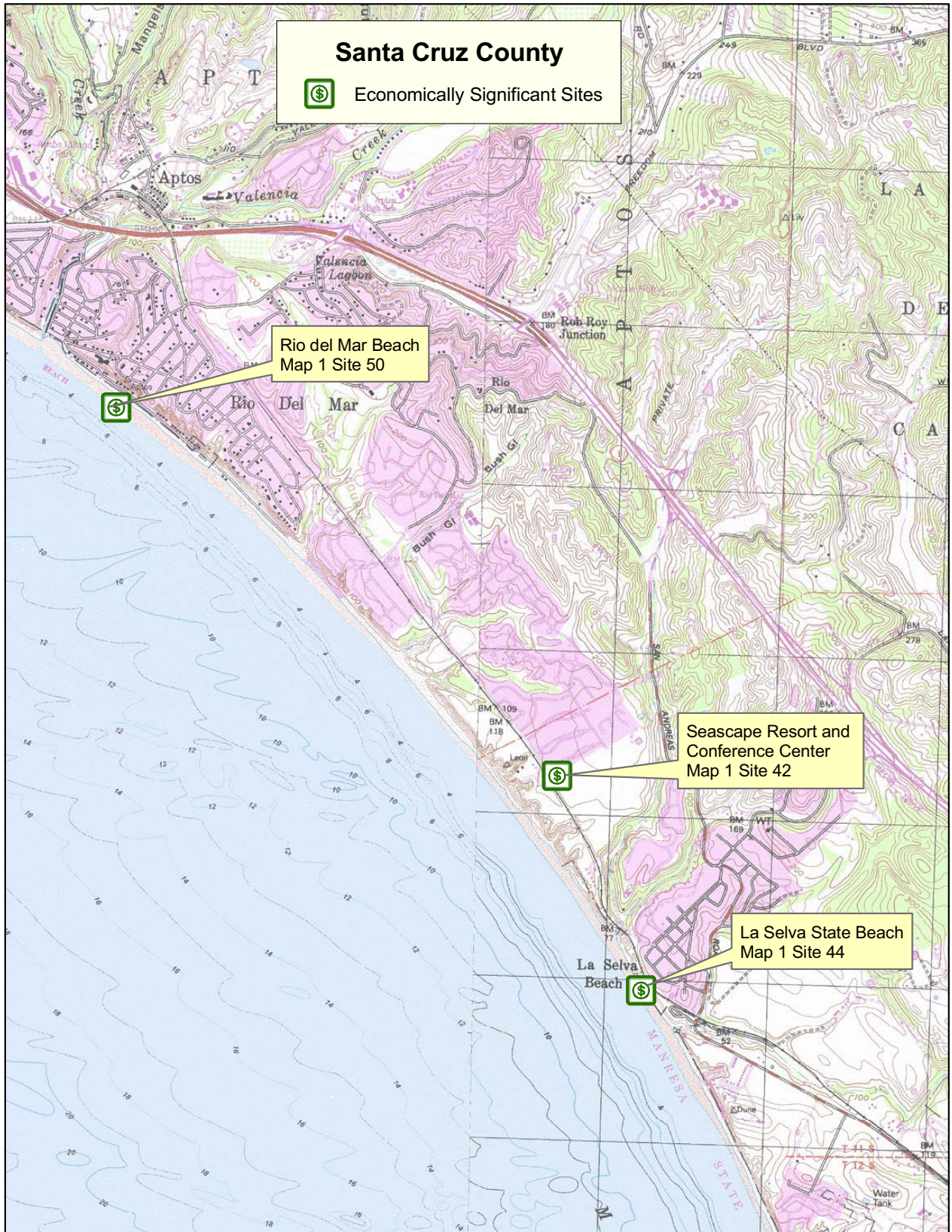




0 0.125 0.25 0.5 Miles



California Department of Fish and Game
Office of Spill Prevention and Response
Santa Cruz County Layout 009



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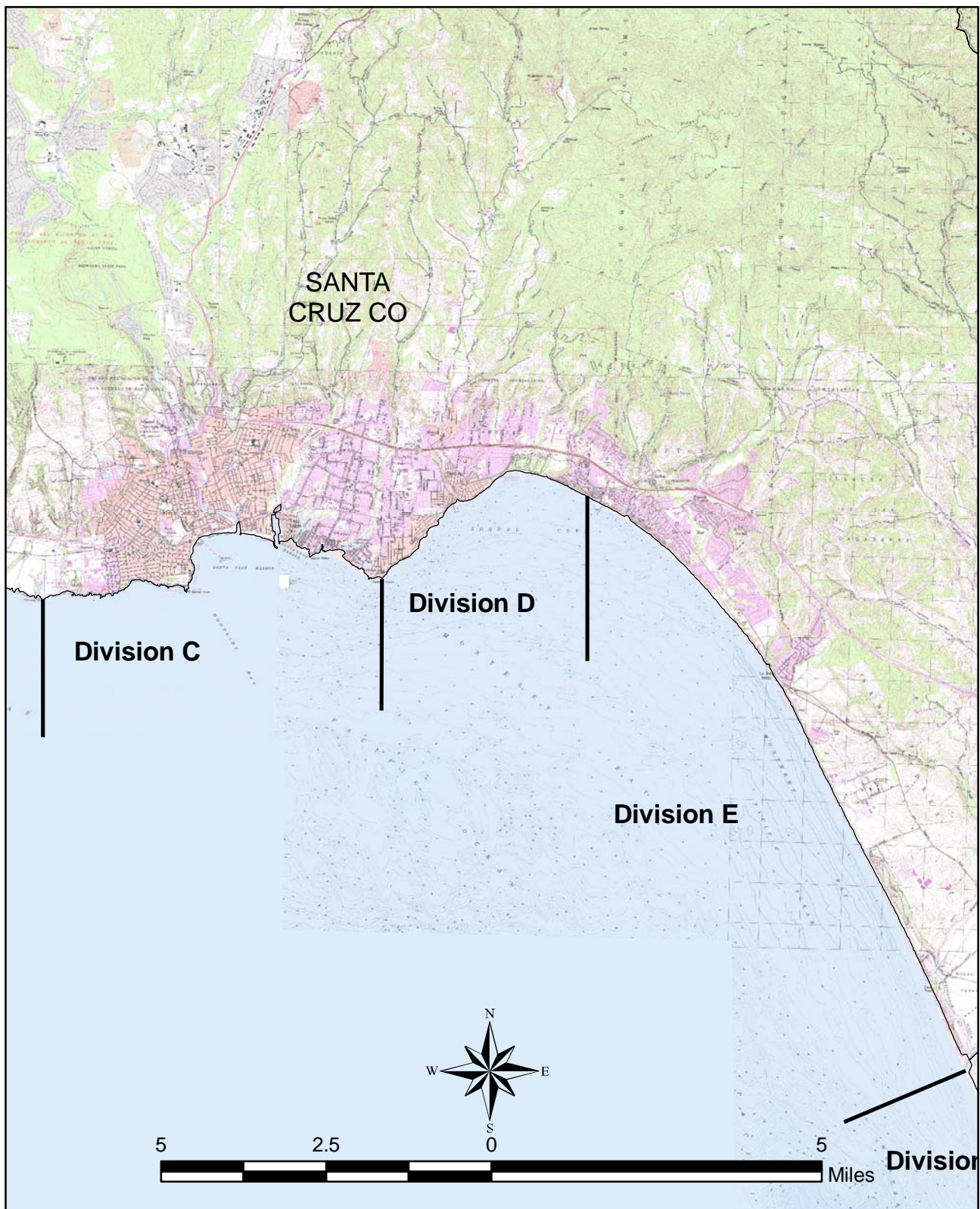
9872.4 Shoreline Operational Divisions

Shoreline Operational Divisions are presented in the ACP as front-loaded information to assist in rapid response planning to provide for quickly organized operational objectives and assignments along affected shorelines. The operational divisions have been developed in conjunction with the US Coast Guard, California Fish and Game OSPR, and various Oil Spill Response Organizations. Experience has demonstrated that in the earliest stages of spill response having organizational issues such as this prepared in advance is very useful to the response team.

The shoreline operational divisions are organized and named according to County boundaries. Within county domains, divisions are boundaries are guided by logical geopolitical features such as coastal physical characteristics and landownership/management issues, shoreline cleanup logistical considerations, and manageable sized coastline segments (generally not longer than about ten miles although some variation occurs.) Logistics, access, and manageability were driving considerations in this effort, particularly as it relates to types of cleanup operations required and problems likely to be present.

In ACP areas having more than one county, Shoreline Operational Divisions will utilize county codes followed by a single alpha character (A to Z). Shoreline operational divisions are labeled from north to south in each county. For example, the north-most operational division in Los Angeles County is "LA-A." In large bays (i.e. San Diego), the labeling will progress in a clockwise direction to accommodate changing coastline angles. Divisions can be easily subdivided (as necessary) by the Operations Section management to provide for appropriate work assignment effort.

Double digit alpha characters (AA to ZZ) will be used for all offshore operational areas and any other special operational areas needed during response.



Santa Cruz County - ACP 3 - GRA 2

C. Haffner OSPR Date: Mar 17, 2008

9872.5 Shoreline Access

Detailed shoreline access information is provided in this section to aid Planning and Operations Section managers in rapid placement of field response personnel and equipment on coastal beaches during the emergency phase of spill response. Coastal access points were examined, mapped and photographed at virtually every location along the respective ACP coastline where personnel and equipment can gain access to specific coastal segments. Used in conjunction with Environmentally Sensitive Sites and Operational Divisions, shoreline access information enables responders to be directed to the most convenient or appropriate coastal access point for their response effort. Knowing which access point to use and the nature of any access limitation will reduce time delays in finding these locations and eliminate uncertainties about the type of equipment that can gain access. Information provided in this section includes:

- a) descriptive information about the respective operational division with boundaries defined by landmark features and latitude/longitude (GPS), and a general description of recognized cultural resource issues, sensitive sites within divisions; and
- b) access point specific *Thomas Bros Maps*® page and coordinates, written directions from major streets and roads, a general site description, photographs of entry points and associated shoreline, land ownership matters, and occurrence of Sensitive Sites. Descriptions may also include the length of accessed coastal segment and limitations of access where physical constraints may be a factor.

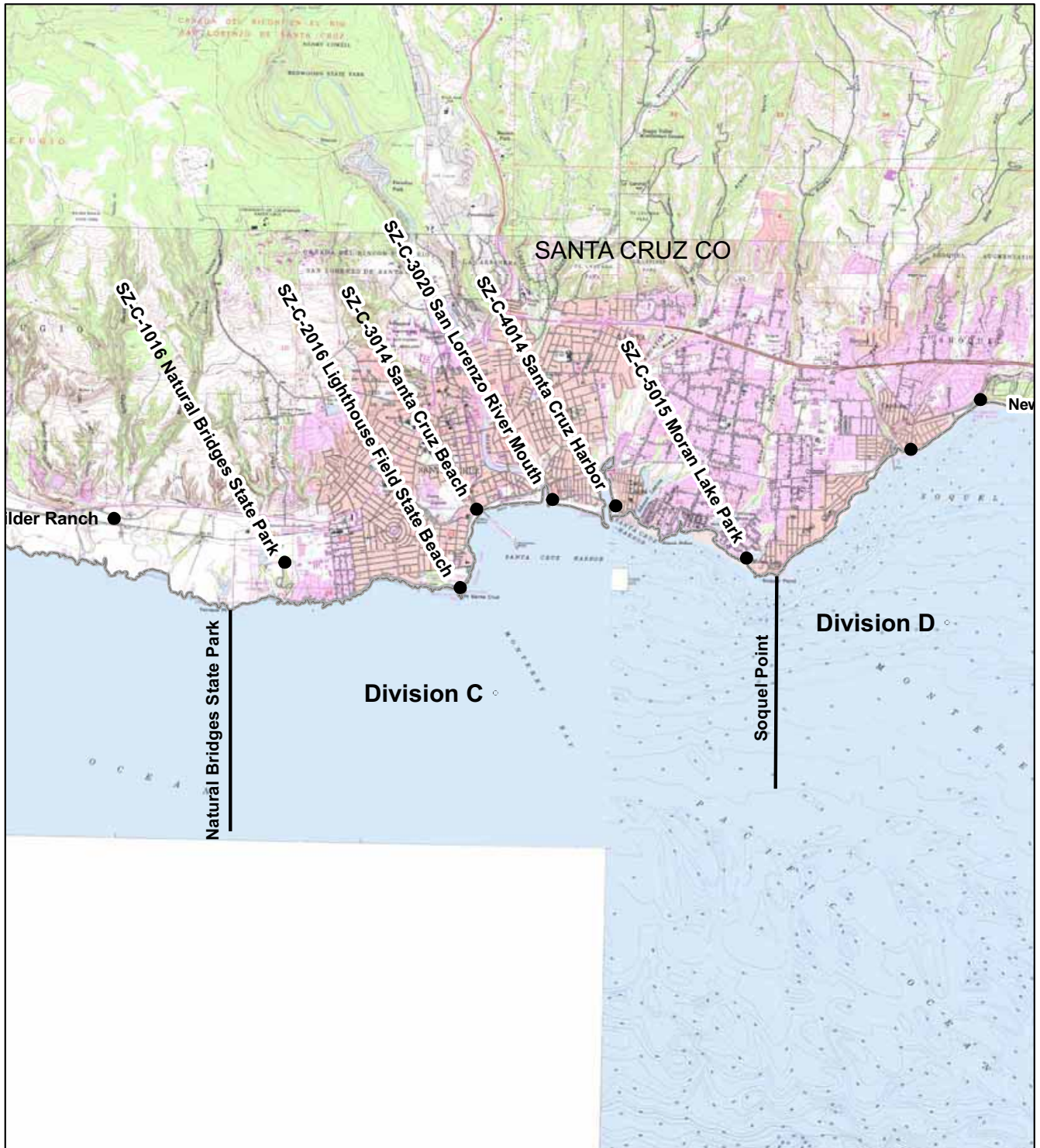
The access point identification label is a seven character alpha-numeric code describing (in order) the County (2-alpha characters) and Operational Division (1-alpha character) where the access point is located, along with a four digit number that relates to its relative physical location in the operational division. Thus, in each operational division the unit digit component will increase from north to south as access points are encountered that provide access to a discrete (partial) coastal segment of the operational division (i.e. 1110, 1115, 1120, etc.). The access point alpha-numeric code will be followed by a name the site is commonly known by (i.e. Nicholas Canyon County Beach).

Access points are labeled from north to south within an operational division. Where segments occur within an operational division they are designated by the thousands digit of the code (i.e. 1000, 2000, 3000, etc.). An access point within a segment is identified by the tenths digit (i.e. 1010, 1020, and 1030), in this example segment one has three access points. Or, there can be multiple isolated shorelines (segments) each with only one access point (i.e. 1010, 2010, 3010, etc.).

In contrast, an operational division with clear, unimpeded access for its entire length may have several access points identified by the hundreds digit (i.e. 1100, 1200, 1300, 1400). In this example the operational division (1000 – which can be thought of as one large segment) is accessible from four access points with no physical barriers preventing movement along its entire length. Responders can enter at any access point, and exit again at any other (providing the pathway will accommodate the equipment). In any given operational division shoreline ownership/management may change. The unit digit of the four digit code reflects that condition (i.e. 1108, 4016, 3011, etc). Higher numbers indicate more difficult access issues. Military lands are identified by the number 9,

Federal lands such as National Parks, National Monuments, National Wildlife Refuges, etc. are identified by the number 8, Tribal lands are identified with the number 7, State Lands such as State Parks, State Beaches, etc. are identified by the number 6, and County lands are identified by the number 5. Properties of cities are labeled with 4. The number 1 identifies private property, while 0 indicates that the ownership is not known. The numbers 3 and 2 are currently not assigned. (The 26 pages with details and photos of access are deleted from printed copies but are available in web and other digital copies.)

Santa Cruz County Division C - Access Names

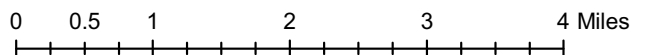


Source: C. Haffner / M. Schommer



Legend

- Access Names
— Division Lines



Shoreline Access Points in GRA 2

SZ Division C

County Santa Cruz

Division Boundaries

North	Natural Bridges State Park	Latitude: N	36.9484	Longitude: W	122.06538
South	Soquel Point	Latitude: N	36.95422	Longitude: W	121.97285

Division Description

Stretches of fine- to medium-grain sand beaches occur in this division. Beaches are in an urban setting. Beaches in this division receive high amounts of recreational use. Giant kelp beds occur just offshore throughout most of the division. Division is within the Monterey Bay National Marine Sanctuary.

Cultural Information

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (916) 653-9125 for specific information on historic or cultural resources in this operational division.

Sensitive Sites Within Division: [3-190-A/B](#) Moore Creek/Natural Bridges State Park
[3-200-B](#) Lighthouse Field State Beach
[3-205-A](#) Santa Cruz Beach
[3-210-A](#) San Lorenzo River Inlet
[3-220-B](#) Santa Cruz Harbor/Woods Lagoon
[3-240-A/B](#) Corcoran Lagoon Inlet (Rodeo Creek Inlet)

Individual Access Points in: SZ Division C

Access Point: SZ - C - 1016 Natural Bridges State Park

Thomas Guide Page: 335 **Grid:** A10 **City:** Santa Cruz

GPS Coordinates: N 36.95476 W 122.05669 **USGS Quad:** Santa Cruz

Directions:

From Hwy1 to Santa Cruz: west on Swift St. Right on West Cliff. Proceed to park entrance.

Site Description:

Coarse grain sand beach. Beach +100yds long with wave cut platforms on the north and south end. High recreational use. Large parking area. Vehicle and heavy equipment access to beach.

Sensitive Sites: [3-190-A/B](#)

Access Point: SZ - C - 2016 Lighthouse Field State Beach

Thomas Guide Page: 335 **Grid:** D10 **City:** Santa Cruz

GPS Coordinates: N 36.95182 W 122.02673 **USGS Quad:** Santa Cruz

Directions:

Hwy 1 to Santa Cruz: Turn on Swift. Follow to West Cliff Drive. Left to Lighthouse State Beach parking area.

Site Description:

Fine grain sand pocket beach bordered by wave-cut platforms. High recreational use. Pinneped haulout on offshore rocks. Site has two large parking lots. Access to beach via stairway.

Sensitive Sites: [3-200-B](#)

Shoreline Access Points in GRA 2

Access Point: SZ - C - 3014 Santa Cruz Beach

Thomas Guide Page: 335 *Grid:* E8 *City:* Santa Cruz

GPS Coordinates: N 36.96255 W 122.02419 *USGS Quad:* Santa Cruz

Directions:

Hwy 1 in Santa Cruz: to Ocean St. Proceed to Laurel. Right then left on Front St. Front St. end at Santa Cruz Municipal Wharf.

Site Description:

Heavily used recreational beach. Fine to medium grain sand beach. Cowell Beach southwest of Santa Cruz Municipal Wharf. Santa Beach Boardwalk is adjacent to the beach. Parking available in public lots.

Sensitive Sites: [3-205-A](#)

Access Point: SZ - C - 3020 San Lorenzo River Mouth

Thomas Guide Page: 335 *Grid:* F8 *City:* Santa Cruz

GPS Coordinates: N 36.96408 W 122.01131 *USGS Quad:* Santa Cruz

Directions:

From Hwy 1 to Santa Cruz: Proceed to South Ocean St. Right on San Lorenzo Blvd. Left on Beach. Proceed to Boardwalk parking area.

Site Description:

Provides access to the eastern end on Santa Cruz Beach. Seabright Beach east of access point. Seabright beach is a fine to medium grain sand beach. High recreational use. Parking along shoulder.

Sensitive Sites: [3-210-A](#)

Access Point: SZ - C - 4014 Santa Cruz Harbor

Thomas Guide Page: 335 *Grid:* G8 *City:* Santa Cruz

GPS Coordinates: N 36.96341 W 122.0005 *USGS Quad:* Santa Cruz

Directions:

From Hwy 1 to Santa Cruz: Soquel Drive (if going N on hwy) or Soquel Ave. (if going S) exit. From Soquel Dr. turn left at stoplight. Proceed north on Soquel Ave to 7th Ave. and turn left. Right on Brommer. Proceed to harbor entrance.

Site Description:

Protected harbor. Highly developed area with high recreational use. Twin Lakes Beach lies to the south of the harbor. Twin Lakes Beach is a fine to medium grain sand beach. Harbor has large parking area. Beach is vehicle accessible.

Sensitive Sites: [3-220-B](#)

Shoreline Access Points in GRA 2

Access Point: SZ - C - 5015 Moran Lake Park

Thomas Guide Page: 255 **Grid:** D4 **City:** Santa Cruz

GPS Coordinates: N 36.95668 W 121.97807 **USGS Quad:** Soquel

Directions:

From Hwy 1 to Santa Cruz: take Soquel Drive off ramp. Turn left at stop sign at the end of exit ramp. Right on 17th Ave. Left on East Cliff. Continue to Moran Lake Park parking area.

Site Description:

Fine grain sand beach with high recreational use. Beach is ~0.75 mile wide. Beach can be used to access Corcoran Lagoon, as well. Parking area has ~30 spaces.

Sensitive Sites: [3-240-A/B](#)



SZ-C-1016 Natural Bridges State Park. Looking north.



SZ-C-1016 Natural Bridges State Park. Looking south.



SZ-C-2016 Lighthouse Field State Beach. Looking north.



SZ-C-2016 Lighthouse Field State Beach. Looking south.



SZ-C-3014 Santa Cruz Beach. Looking southeast.



SZ-C-3020 San Lorenzo River Mouth. Looking north toward Santa Cruz Beach.



SZ-C-3020 San Lorenzo River Mouth. Looking south toward Twin Lakes State Beach.



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SZ-C-3020 San Lorenzo River Mouth. Aerial view of San Lorenzo River.



Copyright (C) 2002-2005 Kenneth & Gabrielle Adelman, California Coastal Records Project, www.Californiacoastline.org
SZ-C-4014 Santa Cruz Harbor. Aerial View

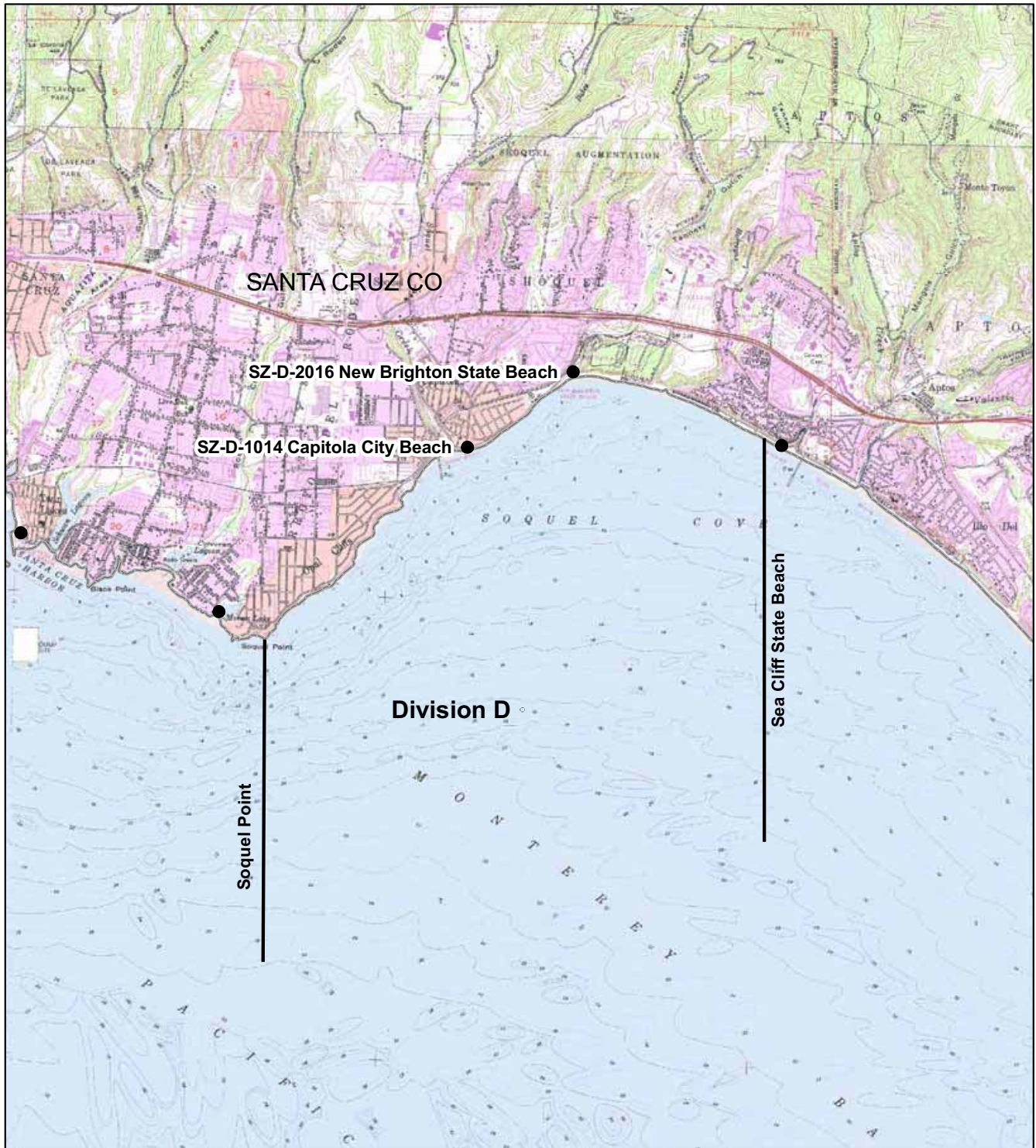


SZ-C-5015 Moran Lake Park. Looking north.



SZ-C-5015 Moran Lake Park. Looking south.

Santa Cruz County Division D - Access Names



Legend

- Access Names
- Division Lines

Source: C. Haffner / M. Schommer

0 0.25 0.5 1 1.5 2 2.5 Miles

Shoreline Access Points in GRA 2

SZ Division D

County Santa Cruz

Division Boundaries

North	Soquel Point	Latitude: N 36.95422	Longitude: W 121.97285
South	Sea Cliff State Beach	Latitude: N 36.97328	Longitude: W 121.91705

Division Description

Fine- to medium-grain sand beaches interspersed with coarse-grain sand beaches. Much of the shoreline access is through private property. Shoreline backed by steep cliffs. Division is within the Monterey Bay National Marine Sanctuary.

Cultural Information

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (916) 653-9125 for specific information on historic or cultural resources in this operational division.

Sensitive Sites Within Division: [3-250-A](#) Soquel Creek Inlet
[3-260-C](#) New Brighton State Beach

Individual Access Points in: SZ Division D

Access Point: SZ - D - 1014 Capitola City Beach

Thomas Guide Page: 256 **Grid:** A3 **City:** Capitola

GPS Coordinates: N 36.97193 W 121.95046 **USGS Quad:** Soquel

Directions:

From Santa Cruz, take Hwy 1 south: take Bay Ave. exit. Right on to Bay Ave. Continue on Bay Ave. Right on Capitola Ave. Right on Stockton Ave. Left on Esplanade and follow to parking area.

Site Description:

Soquel Creek meanders through city beach. Fine grain sand beach. Beach bordered to the north by a wharf and south by steep cliffs.

Sensitive Sites: [3-250-A](#)

Access Point: SZ - D - 2016 New Brighton State Beach

Thomas Guide Page: 256 **Grid:** A3 **City:** Capitola

GPS Coordinates: N 36.97892 W 121.93876 **USGS Quad:** Soquel

Directions:

Hwy 1 to Capitola exit. Use Park Avenue. Head west. Left on McGregor to park entrance.

Site Description:

Fine to medium grain sand beach. Beach extends +1 mile south to the Sea Cliff State Beach parking area. Beach backed by steep cliffs and residential homes. Good vehicle access to beach. Ample parking.

Sensitive Sites: [3-260-C](#)



SZ-D-1014 Capitola City Beach. Looking north.



SZ-D-1014 Capitola City Beach. Looking south.



SZ-D-1014 Capitola City Beach. View of Soquel Creek.

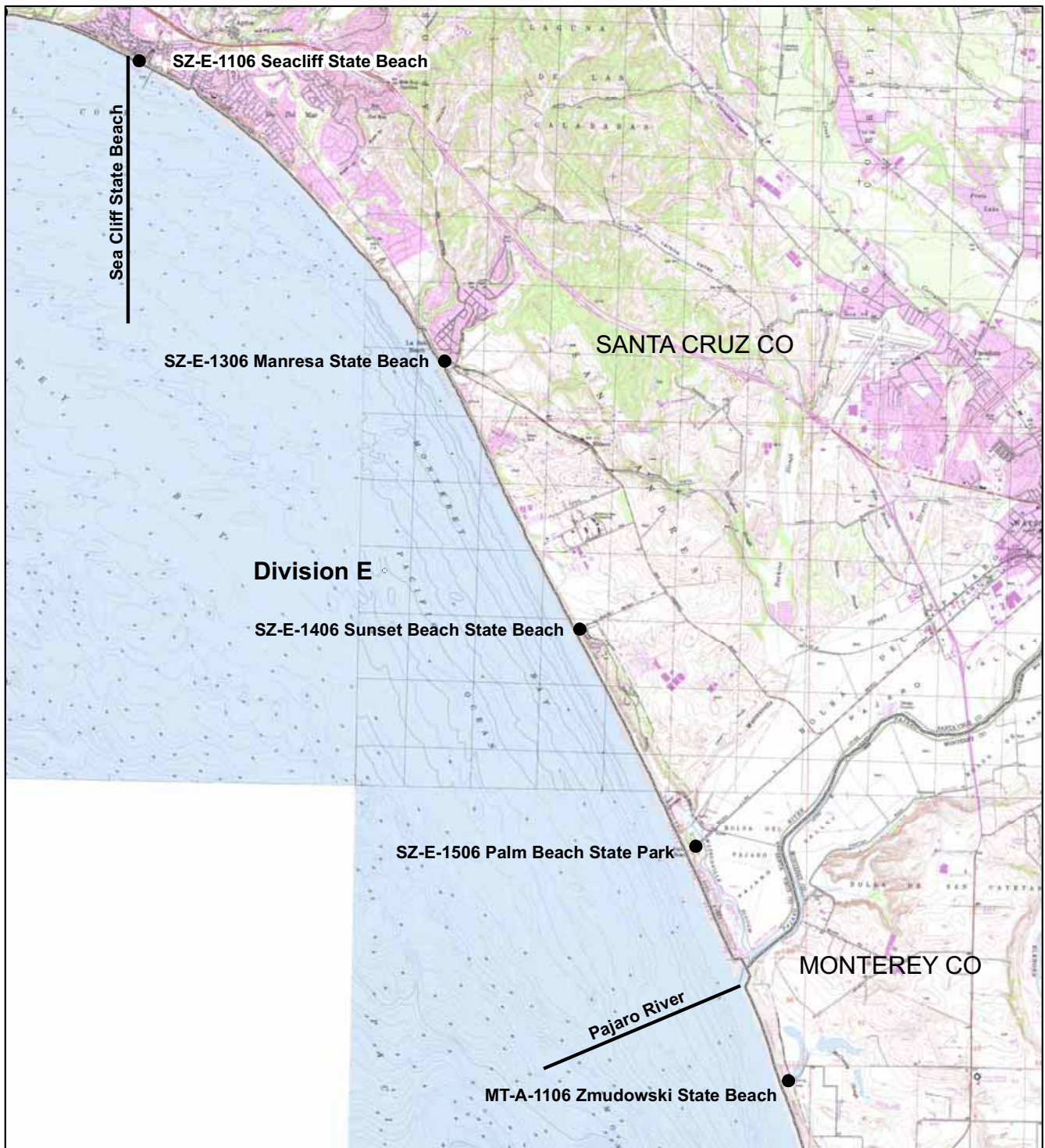


SZ-D-2016 New Brighton State Beach. Looking south.



SZ-D-2016 New Brighton State Beach. Looking north.

Santa Cruz County Division E - Access Names



Legend

- Access Names
- Division Lines

Source: C. Haffner / M. Schommer

0 1.25 2.5 Miles

Shoreline Access Points in GRA 2

SZ Division E

County Santa Cruz

Division Boundaries

North	Sea Cliff State Beach	Latitude: N 36.97328	Longitude: W 121.91705
South	Pajaro River	Latitude: N 36.84943	Longitude: W 121.81033

Division Description

An ~10.5 mile contiguous stretch of fine- to medium-grain sand beach. Moving south in the division, many stretches of beach are backed by sand dunes. Division is within the Monterey Bay National Marine Sanctuary.

Cultural Information

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (916) 653-9125 for specific information on historic or cultural resources in this operational division.

Sensitive Sites Within Division: [3-270-A](#) Aptos Creek Inlet
[3-280-A](#) Manresa & Sunset State Beaches
[3-285-A](#) Sunset State Beach (south end)/Palm Beach
[3-290-A](#) Pajaro River Inlet

Individual Access Points in: SZ Division E

Access Point: SZ - E - 1106 Seacliff State Beach

Thomas Guide Page: 256 **Grid:** A6 **City:** Rio Del Mar

GPS Coordinates: N 36.97267 W 121.91514 **USGS Quad:** Soquel

Directions:

From Hwy 1 south of Capitola: exit State Beach to park entrance.

Site Description:

Fine to medium grain sand beach backed by steep cliffs. Public pier at the southern end of beach leads to the cement ship "Palo Alto". Vehicle access to beach. Ample parking and facilities.

Sensitive Sites:

Access Point: SZ - E - 1206 Rio Del Mar State Beach

Thomas Guide Page: 256 **Grid:** A4 **City:** Rio Del Mar

GPS Coordinates: N 36.96873 W 122.90604 **USGS Quad:** Soquel

Directions:

From Hwy 1: exit Seacliff Beach/State Park drive. Right on Spreckles Drive. Right on Treasure Island Drive. Proceed to parking area.

Site Description:

Fine to medium grain sand beach. Beach is contiguous with Seacliff State Beach to the north and Manresa State Beach to the south. Aptos creek deposits and meanders through beach. ~50 parking spaces available.

Sensitive Sites: [3-270-A](#)

Shoreline Access Points in GRA 2

Access Point: SZ - E - 1306 Manresa State Beach

Thomas Guide Page: 256 *Grid:* B5 *City:* Aptos

GPS Coordinates: N 36.93275 W 121.86232 *USGS Quad:* Watsonville, West

Directions:

From Hwy 1: exit San Andreas Blvd. and proceed west to park entrance.

Site Description:

Fine grain sand beach. Heavy recreational use. Contiguous with Rio Del Mar and Sunset State Beach to the north and south. Beach backed by vegetated cliffs and residential dwellings. Ample parking and vehicle access to beach.

Sensitive Sites: [3-280-A](#)

Access Point: SZ - E - 1406 Sunset Beach State Beach

Thomas Guide Page: 256 *Grid:* B6 *City:* n/a

GPS Coordinates: N 36.89673 W 121.83854 *USGS Quad:* Watsonville, West

Directions:

From Hwy 1: exit Hwy 129/Riverside Dr. Right on Lee Rd. Left on West Beach. Right on San Andreas. Left on Sunset Rd. to park entrance.

Site Description:

Extensive fine to medium grain sand beach to the north nad south. Backed by steep vegetated cliffs. Minimal recreational use. Vehicle access to beach.

Sensitive Sites: [3-285-A](#) [3-280-A](#)

Access Point: SZ - E - 1506 Palm Beach State Park

Thomas Guide Page: 256 *Grid:* B6 *City:* n/a

GPS Coordinates: N 36.86757 W 121.81816 *USGS Quad:* Moss Landing

Directions:

From Hwy 1: exit Lee Rd. Take Beach Rd to park entrance.

Site Description:

Low gradient beach with fine grain sand beach, backed by vegetated dunes. Remote area with recreational use. ~30 parking spaces.

Sensitive Sites: [3-285-A](#) [3-290-A](#)



SZ-E-1106 Seacliff State Beach. Looking north.



SZ-E-1106 Seacliff State Beach. Looking south toward the cement ship 'Palo Alto'.



SZ-E-1106 Seacliff State Beach. View of beach south of the cement ship 'Palo Alto'.



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SZ-E-1206 Rio Del Mar State Beach. Aerial View



SZ-E-1306 Manresa State Beach. Looking north.



SZ-E-1306 Manresa State Beach. Looking south.



SZ-E-1406 Sunset State Beach. Looking north.



SZ-E-1406 Sunset State Beach. Looking south.



SZ-E-1506 Palm Beach State Beach. Looking north.



SZ-E-1506 Palm Beach State Beach. Looking south.

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